

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 23, 2005, 09:41:14 ; Search time 43 Seconds
(without alignments)
824.612 Million cell updates/sec

Title: US-09-927-091-1
Perfect score: 2504
Sequence: 1 MACSKDELICSLCTIYOD.....GSHANGKNVQPLRIINTVRI 475

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/6CTUS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	663.5	26.5	519	4 US-09-949-016-7883	Sequence 7883, Ap
2	552.5	22.1	475	4 US-09-949-016-6317	Sequence 6317, Ap
3	552.5	22.1	487	4 US-09-949-016-11205	Sequence 11205, A
4	546.5	21.8	487	2 US-08-724-394A-7	Sequence 7, Appl
5	486	19.4	485	2 US-08-724-394A-8	Sequence 8, Appl
6	459	18.3	513	4 US-09-949-016-10972	Sequence 10972, A
7	449	17.9	431	4 US-09-949-016-6363	Sequence 6363, Ap
8	445	17.8	459	4 US-09-949-016-7885	Sequence 7885, Ap
9	427.5	17.1	781	4 US-09-949-016-5908	Sequence 5908, Ap
10	427.5	17.1	781	4 US-09-949-016-5908	Sequence 5908, Ap
11	424.5	17.0	803	4 US-09-949-016-11422	Sequence 11422, A
12	421	16.8	179	4 US-09-949-016-7012	Sequence 38, Appl
13	413.5	16.5	842	4 US-09-949-016-7012	Sequence 7012, Ap
14	413.5	16.5	870	4 US-09-949-016-9625	Sequence 9625, Ap
15	396	15.8	178	4 US-09-949-016-9625	Sequence 9625, Ap
16	364.5	14.6	413	4 US-09-663-600A-18	Sequence 198, App
17	359	14.3	447	4 US-09-949-016-7884	Sequence 7884, Ap
18	348	13.9	183	4 US-09-486-147-36	Sequence 36, Appl
19	341	13.6	643	4 US-09-949-016-10023	Sequence 10023, A
20	339	13.5	584	4 US-09-910-174B-16	Sequence 16, Appl
21	339	13.5	584	4 US-09-910-174B-16	Sequence 16, Appl
22	335.5	13.4	184	4 US-09-486-147-35	Sequence 35, Appl
23	329	13.1	513	4 US-09-910-174B-18	Sequence 18, Appl
24	329	13.1	513	4 US-09-910-174B-18	Sequence 18, Appl
25	321	12.8	610	2 US-08-724-394A-5	Sequence 5, Appl
26	316.5	12.6	527	4 US-09-910-174B-10	Sequence 10, Appl
27	316.5	12.6	527	4 US-09-910-174B-10	Sequence 10, Appl

28	315.5	12.6	529	4 US-09-910-174B-13	Sequence 13, Appl
29	315.5	12.6	529	4 US-09-910-174B-13	Sequence 13, Appl
30	312.5	12.5	181	4 US-09-486-147-5	Sequence 5, Appl
31	311.5	12.4	174	4 US-09-486-147-41	Sequence 41, Appl
32	307.5	12.3	523	4 US-09-910-174B-11	Sequence 11, Appl
33	307.5	12.3	523	4 US-09-910-174B-11	Sequence 11, Appl
34	306	12.2	288	4 US-08-724-394A-4	Sequence 4, Appl
35	305.5	12.2	540	2 US-08-724-394A-4	Sequence 4, Appl
36	303	12.1	185	4 US-09-949-016-6985	Sequence 6985, Ap
37	303	12.1	326	4 US-09-949-016-8980	Sequence 8980, Ap
38	299	11.9	581	2 US-08-724-394A-2	Sequence 2, Appl
39	295.5	11.8	581	2 US-08-724-394A-3	Sequence 3, Appl
40	295	11.8	326	4 US-09-949-016-10628	Sequence 10628, A
41	293	11.7	526	4 US-09-910-174B-9	Sequence 9, Appl
42	293	11.7	526	4 US-09-910-174B-9	Sequence 9, Appl
43	293	11.7	526	4 US-09-949-016-6122	Sequence 6122, Ap
44	293	11.7	540	4 US-09-949-016-11644	Sequence 11644, A
45	291.5	11.6	474	4 US-09-949-016-7120	Sequence 7120, Ap

ALIGNMENTS

```
RESULT 1
US-09-949-016-7883
; Sequence 7883, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7883
; LENGTH: 519
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7883
Query Match
Best Local Similarity 32.8%: Pred No. 6.5e-54;
Matches 167; Conservative 85; Mismatches 196; Indels 61; Gaps 13;
4 SIKDELICSLCTIYODPVSLGCEHYFCRCITTEHNVQEOAGARD--CPEGRTFAEPA 61
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
23 NQVSSGSCVCELYKEPIYIEGHNFCACITRWMEDE---RDFPCVCRKTSRYKS 78
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
62 LAPSLKANTYVRYSFPLDALINRPARPC-QAHDKKFLCFLDRALLCFCEPALH 120
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
79 LRPNQLGSMB--TAKQLQAVKRIKIDESLCPQHEALSLFCYDQEVCLICASHTH 136
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
121 EOHVYTGIDDADELQRELOKQLOALDPSEREHTALQLKROLAKTSKSTSLRTTIG 180
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
137 RAHTVPLDDATQOEYKEKQKLEPJOQLQITTCSSSEKKPGELKRLVSRQOILR 196
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
181 APERLRLRLEROKAMLELEADTARTLTIDLEOKVQVRSQD-----RK 224
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
197 EEEELHRRRDEQVLTSLREEE---QDILQRLRENAAH/GDKRDLAAAEVGGKC 252
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
225 VQEGALQLOERLAERDRH---TFLAGVASLSR---LKGKHEHNTLTYDEPFTSKYTC- 276
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
253 LOSGEMLDKDVSTLEKNIIPRKFGSLSTICPRDKALGLVKEIN-RCEKKTWEVTSV 311
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
277 -----PLOY---TIKSLFQDIHPVALTLDPGTAHQRLISDDCTIVAYGN 321
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Db      312 SIELEKNSFNPRQYFALRKILKQIADY-----TIDPETAHNVLSSEDRKSVKFE 364
Qy      322 LHPOLDSPKRDEVEVLSGEAFSSGVHWVEVVAETQWVIGLAHEAASRKGSIOIQ 381
Db      365 TRLRPLPTPRFRTYPCVLTGEGFTSGRHWVEVGVGKTMVAVGVCDSVSRKGEITPL 424
Qy      382 PSRGFYCIWHDQNSACTEPWTRNLNRDLKDKVGFVLDYDQGLIFVYADDMXMTYTF 441
Db      425 PETGYWRVRLWNGDKYATTTPEPPLHKVPRKVGIFLDYEAGTILSFYVTRDSHITYTF 484
Qy      442 REKPGKLCYSFSGQSHANGKNOPLRI 470
Db      485 TDTFTKLMPLFYPG-IRAGRNAPLTI 512

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RESULT 2
US-09-949-016-6317
; Sequence 6317, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6317
; LENGTH: 475
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6317

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Query Match      22.1%; Score 552.5; DB 4; Length 475;
Best Local Similarity 31.3%; Pred. No. 1.8e-43;
Matches 150; Conservative 88; Mismatches 208; Indels 33; Gaps 14;

Qy      7 DELLCSICSIYODPVSLGCEHYFCRCITTEHWVQEOAGARDCECRRTFAEPALAPSL 66
Db      12 EEVTCPICLDPPVEPVSLGCHSFCQECISQ-----VGKGGSVCPVCRQRFILKRLRPNR 67
Qy      67 KLANIVERYSSPFLDALINARRAPPCQAH-DKVKLFCLTDRALLCFPCDEPALHEQHOV 125
Db      68 QLANVNVNLIKESQEA--REGTQGERCAVHGERLHLFCEKDGKALCWVCAQSRKGRDHAM 125
Qy      126 TGIDDAFDELQRELKQOLALODSERHEALQUL--LKROLAETKSSKSLRTTIGFAF 182
Db      126 VPLEBAAGYQELQVALGELR-RKQELAEKLEVEIAIKR--ADMKTVEYQKSRITIAEF 182
Qy      183 ERLHRLREBOKAMELEADTARTLTIDIEQKVORYSQOLRKVOBGAQILOERLAETDRH 242
Db      183 VQKKNFLVEEBROLOELERKDEREQLRIIGEKAKLAQO-----SQALQELISELDRR 235
Qy      243 TFLAGVASLSERL--KGKIHETNLTIEDPFPSTKYTGPIQYTIWKSLPD--IHPVPALYT 298
Db      236 CHSSALIELLOEVIITLERSESNNLKDLITSELRSVCHVPGLKMLRTCAVH-----IT 290
Qy      299 LDPGTARHORLILSDCTTIVAGNTHPQLODSPKRFDEVEVLSGEAFSSGVHWVEVVA 358
Db      291 LDPGTANPWLILSEDRORVRLGDTQ-QSIPNEBERFSDYPMVLGAQHFGHSGKHYMEVDVT 349
Qy      359 EKTQWVIGLAHEAASRKGSIOIQPSRGFYCIWHDQNSACTEPWTRNLNRDLKDKVGV 418
Db      350 GKEAMDIGVCDSDVRRKGFHLSSKSGFWTITWLNKKQYKAYGTYPPOTPLHLQVPPCOVGI 409

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Qy      419 FLDDYDQGLIIFYN-ADDMXMTYTFRE-KPGKLCYSFSGQSHANGKNOPLRIINTVRI 475
Db      410 FLDEYAGWVSFNITIDHSLIYSFSECAFTGRLRFFPSFG-FNDGGKNATAPLTLCPINI 467

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RESULT 3
US-09-949-016-11205
; Sequence 11205, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11205
; LENGTH: 487
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-11205

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Query Match      22.1%; Score 552.5; DB 4; Length 487;
Best Local Similarity 31.3%; Pred. No. 1.9e-43;
Matches 150; Conservative 88; Mismatches 208; Indels 33; Gaps 14;

Qy      7 DELLCSICSIYODPVSLGCEHYFCRCITTEHWVQEOAGARDCECRRTFAEPALAPSL 66
Db      24 EEVTCPICLDPPVEPVSLGCHSFCQECISQ-----VGKGGSVCPVCRQRFILKRLRPNR 79
Qy      67 KLANIVERYSSPFLDALINARRAPPCQAH-DKVKLFCLTDRALLCFPCDEPALHEQHOV 125
Db      80 QLANVNVNLIKESQEA--REGTQGERCAVHGERLHLFCEKDGKALCWVCAQSRKGRDHAM 137
Qy      126 TGIDDAFDELQRELKQOLALODSERHEALQUL--LKROLAETKSSKSLRTTIGFAF 182
Db      138 VPLEBAAGYQELQVALGELR-RKQELAEKLEVEIAIKR--ADMKTVEYQKSRITIAEF 194
Qy      183 ERLHRLREBOKAMELEADTARTLTIDIEQKVORYSQOLRKVOBGAQILOERLAETDRH 242
Db      195 VQKKNFLVEEBROLOELERKDEREQLRIIGEKAKLAQO-----SQALQELISELDRR 247
Qy      243 TFLAGVASLSERL--KGKIHETNLTIEDPFPSTKYTGPIQYTIWKSLPD--IHPVPALYT 298
Db      248 CHSSALIELLOEVIITLERSESNNLKDLITSELRSVCHVPGLKMLRTCAVH-----IT 302
Qy      299 LDPGTARHORLILSDCTTIVAGNTHPQLODSPKRFDEVEVLSGEAFSSGVHWVEVVA 358
Db      303 LDPGTANPWLILSEDRORVRLGDTQ-QSIPNEBERFSDYPMVLGAQHFGHSGKHYMEVDVT 361
Qy      359 EKTQWVIGLAHEAASRKGSIOIQPSRGFYCIWHDQNSACTEPWTRNLNRDLKDKVGV 418
Db      362 GKEAMDIGVCDSDVRRKGFHLSSKSGFWTITWLNKKQYKAYGTYPPOTPLHLQVPPCOVGI 421
Qy      419 FLDDYDQGLIIFYN-ADDMXMTYTFRE-KPGKLCYSFSGQSHANGKNOPLRIINTVRI 475
Db      422 FLDEYAGWVSFNITIDHOSLISFSSECAFTGRLRFFPSFG-FNDGGKNATAPLTLCPINI 479

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RESULT 4
US-08-724-394A-7
; Sequence 7, Application US/08724394A
; Patent No. 5872237
; GENERAL INFORMATION:
; APPLICANT: Feder, John N.

```

APPLICANT: Kronmal, Gregory S.
APPLICANT: Lauer, Peter M.
APPLICANT: Ruddy, David A.
APPLICANT: Thomas, Winston
APPLICANT: Teuchihashi, Zenta
APPLICANT: Wolff, Roger K.
TITLE OF INVENTION: Megabase Transcript Map: No. 5872237el
TITLE OF INVENTION: Sequences and Antibodies Thereto
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/724,394A
FILING DATE: 01-OCT-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Filtz, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 017957-000100
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-576-0200
TELEFAX: 415-576-0300
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 487 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Region
LOCATION: 1..487
OTHER INFORMATION: /note= "52 KD Ro"
US-08-724-394A-7

Query Match 21.8%; Score 546.5; DB 2; Length 487;
Best Local Similarity 30.4%; Pred. No. 6.9e-43;
Matches 150; Conservative 92; Mismatches 202; Indels 49; Gaps 16;

QY 7 DELLSGICSLIYODPVSIGCEHYFCRCRTTEHNVROEAGARD-----CPECRRTF 57
DB 12 EEVTCICIDPPEVPSICGHSFCQECIS----QVGGGGGXXXXXXVCPVCRORF 66
QY 58 AEPALAPSLKANIYERSSPFLDAIILNRRARPCQAH-DVKVLCFLTRALLCFCD 116
DB 67 LKKNLRPNQOLAMVNNLKEISGEA--REGTQGERCAVNGERHLFCEDGKALCVCAQ 124
QY 117 PALHEQHYTGIDAFDELQREIKDQLALQDSERREHTALQI--LKRQLAETKSTKS 173
DB 125 SRKHRRHNAVPLEBAAYOEKQLQVALGEIR--RKQSLAEGLVEYIAIKR--ADMKKTVE 181
QY 174 LRTTIGAEFERLRLREROKAMLERLDARTATLDIQKQVRYSOQLRKQVEGQOILQ 233
DB 182 QKSRIHAEEVQQNFVVEEQRLQLEKDEREQRLIIEBEKEXKLAQ-----SQAQ 234
QY 234 ERLAETDRHTPLAGVSLSERL-----KGKIHETNLTYEDPPTSKYTGPLQYTIWKS 286
DB 235 ELISEDRCHSALLOVITIVLERSESNLKDIDITSPELRSYCHV-PXXXXLXKX 293
QY 287 FQD--IHVPALATLDPGTAGHRLISDCTIYAVGNLHPOPLQDSPKRPFVSVLSGE 344
DB 294 LRTCAVH-----ITLDPOTANPWLILSEDRQVRLADTQ-QSIPGNEERFDSYPMVLGAQ 347

QY 345 AFSSGVHWYVVAEKTOVIGLAEHAASRKSGIOLPSRGFYCIWMHGNQYSACTEPW 404
DB 348 HFGSKHTWENDVYTKEMADLGVCDSVRKRGHPLSSKSGFWTILMNKKQYBAGYTPO 407
QY 405 TRLNVRDKLDKVGFLDYDQGLIYYN-ADMSWLYTRE-KEPGKLSYFSPGSHANG 462
DB 408 TPLHGVPCQGIPLDYEAGWVSFYNTIDHSLISFSECAFPTPLRPFPSPG-FNDGG 466
QY 463 KVVQPLRINTVRI 475
DB 467 KNTAPLTLCPLNI 479

RESULT 5
US-08-724-394A-8
Sequence 8, Application US/08724394A
Patent No. 5872237
GENERAL INFORMATION:
APPLICANT: Feder, John N.
APPLICANT: Kronmal, Gregory S.
APPLICANT: Lauer, Peter M.
APPLICANT: Ruddy, David A.
APPLICANT: Thomas, Winston
APPLICANT: Teuchihashi, Zenta
APPLICANT: Wolff, Roger K.
TITLE OF INVENTION: Megabase Transcript Map: No. 5872237el
TITLE OF INVENTION: Sequences and Antibodies Thereto
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/724,394A
FILING DATE: 01-OCT-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Filtz, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 017957-000100
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-576-0200
TELEFAX: 415-576-0300
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 485 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Region
LOCATION: 1..485
OTHER INFORMATION: /note= "Roret"
US-08-724-394A-8

Query Match 19.4%; Score 486; DB 2; Length 485;
Best Local Similarity 29.3%; Pred. No. 3.6e-37;
Matches 137; Conservative 80; Mismatches 213; Indels 38; Gaps 12;

QY 5 LDELLSGICSLIYODPVSIGCEHYFCRCRTTEHNVROEAGARD-----CPECRRTFAP 60
DB 10 NMEEATCSICSLIMNPVINSINGHSYCHLCITDFKNPQKQRLRETFCPCQCRAPFHM 69
QY 61 ALAPSLKANIYERSSPFLDAIILNRRARPCQAH-DVKVLCFLTRALLCFCDPEAL 119

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Db      70 SLRPNKQGSILIALKE--TDQENKXXXXXXSCENHQRFLFCEDEGQILCMKCEBAPQ 127
Qy      120 HEQGVGTIDAPFELQRELBKQOLQADSERHEHTALQLKROLAETKSTYSKTLRTTIG 179
      128 HKGHTALVEVNCQGYKXKQAKAVTKLKOLEDRCETQKLTAMRTWKKEKVOIQRKIR 187
Qy      180 EAFERHLRLEROKAMLELEADTARTLT---DIEKQVQYSGQLR-----KYQEG 228
      188 SDFNGLQCFLHEEKSTYLMLEKEEQOTLSRLDYEGGLGKSNELKSHILEEKKQGS 247
Qy      229 AQLIOERLAETDRHTFLAGVASLSERLKGKIHETNLTYEDPFTSKYGPLOYTIMKSLQ 288
      248 AQLKLOVNDT-----LSRWAVALKETSSEAVSLHMCVSKLFPVVKMKLS 296
Qy      289 DIHPVPAALTDPGTARHQLILSDPCTIVAYGNLHPLOLD-SPKRDEVSUJSEBAPS 347
      297 --HGV--SVLIDPTAHHEILISDRROVTRG--YTQENODTSSRRFTAFPCLGCEGFT 350
Db      348 SGVHWVWVAEKTQWVIGLAHEAASRKSIOIQPSRGFYCIWHDGNOYSACTEPWRL 407
      351 SGRRYFEVDVGEQGMNLDGVCMENVQRGTGMKEPQSGFWTLALCKKKGVVALTSPISL 410
Qy      408 NVBDKLDKGVVFLDYQGLLIFYNADDMG-WLYTF-REKFPKGLCSYF 453
      411 HLHEQPLVGLFIDYEGVVSFYNGXNTGCHIFTPFKASFSDTLRYEF 458

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RESULT 6
US-09-949-016-10972
; Sequence 10972, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10972
; LENGTH: 513
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-10972

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Query Match      18.3%; Score 459; DB 4; Length 513;
Best Local Similarity 27.0%; Pred. No. 1,4e-34;
Matches 130; Conservative 85; Mismatches 214; Indels 52; Gaps 12;

Qy      1 MACSKDELICISLTIYDPPVSLGCEHYFCRCITTEHMV-----ROEAQAGADCEPC 53
      42 LARKQEBATSCICLDYTPDVTTCGHNFCRACIQLSWEKARKKRRKKSFPCEPC 101
Db      54 RTFAEPALAPSLKLANIVERYSFPLDAIINARARPCQA-HDKYKLPCLTDRALLCF 112
      102 REMSPQRNLNRLITKVAEMAQHP-----GLQKODLQENHEPLKLPQXQKQSPICV 155
Qy      113 FCDPALHEQVGTIDAPFELQRELBKQOLQADSERHEHTALQLKROLAETKSTYSKTL 171
      156 VCRSRERHRLHVPABEAVQGYKLKLEBDEWYARE-QITRTGLQAREQSLAEWQKV 214
Db      172 KSLTTFGEAFERHLRLEROKAMLELEADTARTLTIDIBQKY-----QRYSGQLKQVQ 226
      215 KERERIVLEFERKMLYVEEBORLQALTEBEETASRLRESVACIDRQGHSHIELLLIQ 274

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Qy      227 EGAQLIOERLAETDRHTFLAGVASLSERLKGKIHETNLTYEDPFTSKYGPLOYTIMKSL 286
      275 -----LEERSIQGLQMLQDMKEPILSRKNNSVQCEPAAPFRPRIVRVQGLVEVLRGF 329
Qy      287 FODIHVPAAALTLDGTIAHQRLLISDDCTIVAYGNLHPLODSPK-----RFDVEV 338
      330 LEDVVP-----DATSAVYPILL-----YESRQRVYLGSSBEGSGFCSDKRFVAYP 374
Qy      339 SVLGEAFSSGVHWYEV--VVAEKTQWVIGLAHEAASRKSIOIQPSRGFYCIWHDGNO 396
      375 CAVGOTAFSSGRHWYEVGMNITGDALMALGVCRONVSKRQVPCPENGFVWVGLSKGTK 434
Qy      397 YSACTEPWRLNVBDKLDKGVVFLDYQGLLIFYNADDMGLYTFRE-KFPKGLCSYFSP 455
      435 YLSTPSALTPLYMLPEPSSHMGIFLDFEAGEVSFYSDGSHLHTYSQATFPGLQPFCL 494
Qy      456 G 456
      495 G 495

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RESULT 7
US-09-949-016-6363
; Sequence 6363, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6363
; LENGTH: 539
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6363

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Query Match      17.9%; Score 449; DB 4; Length 539;
Best Local Similarity 24.9%; Pred. No. 1,4e-33;
Matches 135; Conservative 96; Mismatches 192; Indels 120; Gaps 16;

Qy      4 SLKDELICISLTIYDPPVSLGCEHYFCRCITTEHMVROEAQAGADCEPCRTFAEPALA 63
      9 SLEEVTCISCLDYLPDVTIDCGHVFCSRCTTD--VPRISGRVPCPLCKKPFKENIR 66
Db      64 PSIKLANIVERYSFPLD-----AIIINARARPCQA-HDKYKLPCLTDRALLCFPDE 116
      67 PVMQSLASTVENIERLKVNDKGRQGEVTRBQDAKCEHREKRLHYCEDDGKLLCVWGRE 126
Qy      117 PALHEQVGTIDAPFELQRELBKQOLQADSERHEHTALQLKROLAETKSTYSKTL- 174
      127 SREHRTHTVLMKEKAQPRERKILNHLSTLR-RDRDKIQGFQ--AKGBADILAAALKQD 183
Db      175 -RTTIGAEFERHLRLEROKAMLELE-----ADTARTLTIE 212
      184 QROYIVAEFGQHQLREHERHLRQLAKLROELTEGSEKRSRGVGEIATLATVISTLE 243
Qy      213 QVQVRSQQLRKVQGAQIQR--LAETDRHTFLAG--VASLSERLKGKIHETNLTYE 267
      244 GKAQ-----QPAELMDTRDFLNRPRKKFWVKIPARVYKKTGTFSPSKLSLQ 294
Db      268 DPTSKYGPLOYTIMKSLFODIHVPAAALTLDPGTAHQRLLISDDCTIVAYGNLHPQL 327
      295 R-GIREFGQ-----KLDRDLEKYVSVTLIDPOSASGYQLQLESDWKCVTYTSLYKSAY 345

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QY 308 LILSDCTIVAYGNLHPOLDSPKRDEVSVLGSEAFSSGVHWVVAEKTOWIGL 367
 Db 611 LILSDDLKSVRLGNKM-ERLPDGPORFDSCTIVLSSPSFLSGRRVWEVBDGKTAMILGA 669
 QY 368 AHEAASRKSGSIQIOPSRGFYCIWMHDGNYSACTEPMWRLNVRDLKDVGFLLDYDQGL 427
 Db 670 CXTSISRKGNMTLSPENGVWVIMKENEYQASVFPRLILKEPPKRVGIFVDYRVGSI 729
 QY 428 IFYNADMSMLYTFRE-KFPGKLCYFSPGQSHANGKVOPRI 470
 Db 730 SFYNVTARSHIYTFASCSFSGPLPIFSPG-TRDGGKNTAFLTI 772

RESULT 10
 US-09-949-016-5908
 / Sequence 5908, Application US/09949016
 / Patent No. 6812339
 / GENERAL INFORMATION:
 / APPLICANT: VENTER, J. Craig et al.
 / TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 / FILE REFERENCE: CLO01307
 / CURRENT APPLICATION NUMBER: US/09/949,016
 / PRIOR FILING DATE: 2000-04-14
 / PRIOR APPLICATION NUMBER: 60/241,755
 / PRIOR FILING DATE: 2000-10-20
 / PRIOR APPLICATION NUMBER: 60/237,768
 / PRIOR FILING DATE: 2000-10-03
 / PRIOR APPLICATION NUMBER: 60/231,498
 / PRIOR FILING DATE: 2000-09-08
 / NUMBER OF SEQ ID NOS: 207012
 / SOFTWARE: FastSeq for Windows Version 4.0
 / SEQ ID NO 5908
 / LENGTH: 781
 / TYPE: PRF
 / ORGANISM: Human
 US-09-949-016-5908

Query Match 17.1%; Score 427.5; DB 4; Length 781;
 Best Local Similarity 25.2%; Pred. No. 2.7e-31;
 Matches 132; Conservative 79; Mismatches 168; Indels 145; Gaps 17;
 QY 20 DVSLSGCEHYFCR-RCITEHWVROBAGARD-CPECRRTF--AEAPALPSLTANIV 72
 Db 321 DVPDGTGVNDSCSPFAVSGH--PQASGSRSPGCPQDSHERKSPSLSPQ----- 370
 QY 73 ERYSSFPDLAINARARAPCOANDK--VKLFCLTRALLCFCDERPAHNEHOVTGID 130
 Db 371 -----PLP-----QCRHLKQVQLFCEDHDEPILCLISLQEHGHRVRIEE 414
 QY 131 APDELQRLKDQQLQDSEREHTEALQLRKQLAETKS-----STKSLRTTIGEAPERL 185
 Db 415 VALEHKKKIKQLEHLKTLRKSGEE--ORSYGEKAVSFLKQTEALKQVQRKLEQV 469
 QY 186 HRLLRERQ-----KAMLELEADTAR----- 206
 Db 470 YFFLEQGHFVASLEDVGQWVGIRKAYDTRVSQDIALDALIGLEIAKECQSEWELLQ 529
 QY 207 -----TLTDIEQVORYSQQLRKVQGAQILQERLAETDRHTFLAG 247
 Db 530 DIGDILHRAKTVPVPEKMTTPQBIKQIKQLHQKSEFVSTKYFSFTL-RSEMEWF--- 585
 QY 248 VASISERLKGIHETNLTVEDPFTSKYTGPLYQTYIKWSILFQDIHPVPALTLDPGTAHOR 307
 Db 586 --NVPBLIGAQAHAVN-----VILDAETAYPN 610
 QY 308 LILSDCTIVAYGNLHPOLDSPKRDEVSVLGSEAFSSGVHWVVAEKTOWIGL 367
 Db 611 LILSDDLKSVRLGNKM-ERLPDGPORFDSCTIVLSSPSFLSGRRVWEVBDGKTAMILGA 669
 QY 368 AHEAASRKSGSIQIOPSRGFYCIWMHDGNYSACTEPMWRLNVRDLKDVGFLLDYDQGL 427
 Db 670 CXTSISRKGNMTLSPENGVWVIMKENEYQASVFPRLILKEPPKRVGIFVDYRVGSI 729

Db 670 CXTSISRKGNMTLSPENGVWVIMKENEYQASVFPRLILKEPPKRVGIFVDYRVGSI 729
 QY 428 IFYNADMSMLYTFRE-KFPGKLCYFSPGQSHANGKVOPRI 470
 Db 730 SFYNVTARSHIYTFASCSFSGPLPIFSPG-TRDGGKNTAFLTI 772

RESULT 11
 US-09-949-016-11422
 / Sequence 11422, Application US/09949016
 / Patent No. 6812339
 / GENERAL INFORMATION:
 / APPLICANT: VENTER, J. Craig et al.
 / TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 / FILE REFERENCE: CLO01307
 / CURRENT APPLICATION NUMBER: US/09/949,016
 / PRIOR FILING DATE: 2000-04-14
 / PRIOR APPLICATION NUMBER: 60/241,755
 / PRIOR FILING DATE: 2000-10-20
 / PRIOR APPLICATION NUMBER: 60/237,768
 / PRIOR FILING DATE: 2000-10-03
 / PRIOR APPLICATION NUMBER: 60/231,498
 / PRIOR FILING DATE: 2000-09-08
 / NUMBER OF SEQ ID NOS: 207012
 / SOFTWARE: FastSeq for Windows Version 4.0
 / SEQ ID NO 11422
 / LENGTH: 803
 / TYPE: PRF
 / ORGANISM: Human
 US-09-949-016-11422

Query Match 17.0%; Score 424.5; DB 4; Length 803;
 Best Local Similarity 25.8%; Pred. No. 5.3e-31;
 Matches 136; Conservative 83; Mismatches 178; Indels 131; Gaps 20;
 QY 20 DVSLSGCEHYFCR-RCITEHWVROBAGARD-CPECRRTF--AEAPALPSLTANIV 72
 Db 321 DVPDGTGVNDSCSPFAVSGH--PQASGSRSPGCPQDSHERKSPSLSPQ----- 370
 QY 73 ERYSSFPDLAINARARAPCOANDK--VKLFCLTRALLCFCDERPAHNEHOVTGID 130
 Db 371 -----PLP-----QCRHLKQVQLFCEDHDEPILCLISLQEHGHRVRIEE 414
 QY 131 APDELQRLKDQQLQDSEREHTEALQLRKQLAETKS-----STKSLRTTIGEAPERL 185
 Db 415 VALEHKKKIKQLEHLKTLRKSGEE--ORSYGEKAVSFLKQTEALKQVQRKLEQV 469
 QY 186 HRLLRERQ-----KAMLELEADTAR----- 206
 Db 470 YFFLEQGHFVASLEDVGQWVGIRKAYDTRVSQDIALDALIGLEIAKECQSEWELLQ 529
 QY 207 -----TLTDIEQVORYSQQLRKVQGAQILQERLAETDRHTFLAG 247
 Db 530 DIGDILHRAKTVPVPEKMTTPQBIKQIKQLHQKSEFVSTKYFSFTL-RSEMEWF--- 585
 QY 248 VASISERLKGIHETNLTVEDPFTSKYTGPLYQTYIKWSILFQDIHPVPALTLDPGTAHOR 303
 Db 586 --NVPBLIGAQAAG--ENPVGMLPMDPYLG-----IQIFAVNVV-----LDAET 628
 QY 304 AHQQLILSDCTIVAYGNLHPOLDSPKRDEVSVLGSEAFSSGVHWVVAEKTOWIGL 363
 Db 629 AYPVILFSSDDLKSVRLGNKM-ERLPDGPORFDSCTIVLSSPSFLSGRRVWEVBDGKTAM 687
 QY 364 VIGLAHEAASRKSGSIQIOPSRGFYCIWMHDGNYSACTEPMWRLNVRDLKDVGFLLDYD 423
 Db 688 ILGACKTSISRKGNMTLSPENGVWVIMKENEYQASVFPRLILKEPPKRVGIFVDYR 747
 QY 424 QGLILFYNADMSMLYTFRE-KFPGKLCYFSPGQSHANGKVOPRI 470
 Db 748 VGSISFYNVTARSHIYTFASCSFSGPLPIFSPG-TRDGGKNTAFLTI 794

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RESULT 12
US-09-486-147-38
; Sequence 38, Application US/09486147
; Patent No. 6627745
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America, as
; APPLICANT: represented by the Secretary, Department of Health and Human
; APPLICANT: Services
; APPLICANT: Daniel L. Kastner
; APPLICANT: Ivona Aksentijevich
; APPLICANT: Michael Centola
; APPLICANT: Zhioming Deng
; APPLICANT: Adam Sood
; APPLICANT: Francis S. Collins
; APPLICANT: Trevor Blake
; APPLICANT: P. Paul Liu
; APPLICANT: Deborah Gumcio
; APPLICANT: Robert I. Richards
; APPLICANT: Darrell O. Rieke
; APPLICANT: No. 6627745man A. Doggett
; APPLICANT: Morechai Pras
; TITLE OF INVENTION: IDENTIFICATION OF THE GENE CAUSING
; TITLE OF INVENTION: FAMILIAL MEDITERRANEAN FEVER
; FILE REFERENCE: 14014.031401
; CURRENT APPLICATION NUMBER: US/09/486,147
; PRIOR FILING DATE: 2000-08-07
; PRIOR APPLICATION NUMBER: PCT/US98/17255
; PRIOR FILING DATE: 1998-08-20
; PRIOR APPLICATION NUMBER: 60/056,217
; PRIOR FILING DATE: 1997-08-21
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 179
; TYPE: PRT
; ORGANISM: Pldurodeles waltl
US-09-486-147-38

Query Match      16.8%; Score 421; DB 4; Length 179;
Best Local Similarity 47.7%; Pred. No. 1,1e-31;
Matches 84; Conservative 28; Mismatches 62; Indels 2; Gaps 2;

QY 295 AALTPDPTAHORLILSDOCTIVAYGNLHPOLDSPKRFDVSVLGSFAFSSGVHWE 354
DB 1 APLTIDPTAHNLVLSELTSTVKTDT-KQQLPDPKPSFCICVLVLSGDSGHVYE 59
QY 355 VVAEKTOWVIGLAHEAASRKSGSIQPSRGFYCIWMDGNOYSACTEPTRLNVRDKLD 414
DB 60 VEVGNKTMVDVGMASSSNRKGIKLPNGYMAIWRNGMAFKLSESKTLNLSKPS 119
QY 415 KGVGLDHYOGLIFPNADDMWLYTFREKFPKGLCSYFSGSHANGKQVPLRI 470
DB 120 KIGVLDYEGGVSPYNADMSPYTFNGSFTEKLYPILSPFLQD-SGNABEPLKL 174

RESULT 13
US-09-949-016-7012
; Sequence 7012, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7012
; LENGTH: 842
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7012

Query Match      16.5%; Score 413.5; DB 4; Length 842;
Best Local Similarity 26.7%; Pred. No. 6.3e-30;
Matches 133; Conservative 91; Mismatches 196; Indels 79; Gaps 18;

QY 4 SLKDELCSICSIYQDPVSLGCEHYFCRCITHEMVROEA---OGARDCCECRRTFAE 59
DB 362 NVGEVTCPCIELTEPLSLDCHSLCRACITVS--NKEAVTSMGKSSCVCVGSYSF 419
QY 60 PALAPSLKANTVEYSSFPDLAINARRAAPCOAH-DKVLFLCTLRALLCFDDEBA 118
DB 420 EHLQANQHLANTVEIKVEKVLSPDNGKGRDL--CDHGEKLLFKEDRKVICWLCSERQ 477
QY 119 LHEOHQVIGIDAPDELQRELKDOLQALODSERHTEALQLKROLAETKSTK---SL 174
DB 478 EHRGHVTLTEVEFECQEKLDVLRKLKEEE---AEKLEADIREKTSWKYQVTE 533
QY 175 RTTIGAEFERHLRLRERQKAMLEELADYARTLTDIQKQVYSQOLRKVOE----- 227
DB 534 RQRIQTEPQSLINNEBQRELQRLBEEKKTLDPKPAEDELVQKQVRELISDVBC 593
QY 228 ----GAQILQRLAETDAHTFLAGVASLSE--RLKGIHETNLYDEDPSTKYQPLQY 280
DB 594 RSQWSTMBLQD-----MSGIMKMSBEIWRLL--KPKWYSKKLTVFHPADLSR 639
QY 281 TIWKSIFQDHPVP--AALTDPGTAHORLILSDOCTIVAYGNLHPOLDSPKRFDVE 337
DB 640 ML--QMFRLTRVRCYWDVTLNSVNLNVLVSEDOQOVISVPIPPPCYN----- 689
QY 338 VSLGSEAFSSGVHWEVVAEKTQWIG-----LAHEAASRKSG-SIQPSR 384
DB 690 YGVLSQYFSSGKHWEVDVSKTAMILGVCRYSRHHKVVVRCANQNLYTKRPLF 749
QY 385 GFCYCIWMDGNOYSACTEPT-----RLNVRDKLDKGVFLDYOGLIFPNADM-SW 437
DB 750 GYVWVIGLQNKCKYGVFEESLSDPEVLTLSMAVPPCRVGFVDYENGIVSPFNVTSHGSL 809
QY 438 LTFRE-KPFGKLSYFSP 455
DB 810 IYFSKCCPSQPVYPFNP 828

RESULT 14
US-09-949-016-9625
; Sequence 9625, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9625
; LENGTH: 870
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9625

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OM protein - protein search, using sw model

Run on: February 23, 2005, 09:43:45 ; Search time 133 Seconds

(without alignments)
1168.718 Million cell updates/sec

Title: US-09-927-091-1

Perfect score: 2504

Sequence: 1 MACSLKDELICISICSIYOD.....GSHANGKVQPLRIWVRI 475

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Gapop 10.0 , Gapext 0.5

Searched: 1380268 seqs, 327241040 residues

Total number of hits satisfying chosen parameters: 1380268

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications AA.*

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3: /cgn2_6/ptodata/1/pubpaa/US05_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
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6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
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19: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2504	100.0	475	9	US-09-927-091-1
2	1312	52.4	304	9	US-09-927-091-2
3	613	24.5	500	9	US-09-731-872-466
4	613	24.5	500	10	US-09-876-997-466
5	583	23.3	580	9	US-09-925-301-943
6	550.5	22.0	485	14	US-10-276-372-2
7	550.5	22.0	485	16	US-10-473-576-1
8	541.5	21.6	485	15	US-10-094-748-2615
9	501	20.0	471	15	US-10-104-047-3482
10	500	20.0	468	15	US-10-104-047-3664
11	499.5	19.9	4675	15	US-10-093-463-74
12	492	19.6	465	14	US-10-024-298A-97
13	492	19.6	465	14	US-10-042-211A-97

14	492	19.6	465	15	US-10-617-217A-97	Sequence 97, Appl
15	489	19.5	465	14	US-10-024-298A-99	Sequence 99, Appl
16	489	19.5	465	14	US-10-042-211A-99	Sequence 99, Appl
17	489	19.5	465	15	US-10-617-217A-99	Sequence 99, Appl
18	489	19.5	465	16	US-10-788-792-158	Sequence 158, Appl
19	475.5	19.0	4691	15	US-10-093-463-72	Sequence 72, Appl
20	427.5	17.1	395	15	US-10-108-260A-4617	Sequence 4617, Ap
21	418	16.7	475	14	US-10-000-897-78	Sequence 78, Appl
22	418	16.7	475	15	US-10-094-749-2393	Sequence 2393, Ap
23	418	16.7	475	15	US-10-042-865-65	Sequence 65, Appl
24	418	16.7	475	15	US-10-818-168-78	Sequence 78, Appl
25	414.5	16.6	488	15	US-10-221-625-82	Sequence 82, Appl
26	413.5	16.5	488	16	US-10-755-889-560	Sequence 260, App
27	411	16.4	473	15	US-10-114-270-106	Sequence 106, Appl
28	409	16.3	579	15	US-10-042-865-6	Sequence 6, Appl
29	408	16.3	592	15	US-10-042-865-64	Sequence 64, Appl
30	407.5	16.3	474	15	US-10-104-047-3289	Sequence 3289, Ap
31	393	15.7	498	14	US-10-247-671-167	Sequence 167, App
32	388.5	15.5	194	9	US-09-764-868-1031	Sequence 1031, Ap
33	368.5	14.7	277	15	US-10-094-749-3098	Sequence 3098, Ap
34	364.5	14.6	413	11	US-09-978-360A-710	Sequence 710, App
35	364.5	14.6	413	14	US-10-319-763-198	Sequence 198, App
36	353.5	14.1	442	16	US-10-755-889-524	Sequence 524, App
37	343.5	13.7	183	9	US-09-864-761-3547	Sequence 3547, A
38	341	13.6	630	16	US-10-408-765A-640	Sequence 640, App
39	341	13.6	630	16	US-10-317-277A-168	Sequence 168, App
40	340.5	13.6	438	15	US-10-262-445-34	Sequence 34, Appl
41	339	13.5	584	9	US-09-910-174A-16	Sequence 16, Appl
42	339	13.5	584	9	US-09-935-868-12	Sequence 12, Appl
43	339	13.5	584	9	US-09-896-738-18	Sequence 18, Appl
44	339	13.5	584	14	US-10-041-319-17	Sequence 17, Appl
45	339	13.5	584	16	US-10-648-593-157	Sequence 157, App

ALIGNMENTS

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RESULT 1
US-09-927-091-1
; Sequence 1, Application US/09927091
; Patent No. US20020119541A1
; GENERAL INFORMATION:
; APPLICANT: KILLARY, ANN
; APPLICANT: LOTT, STEVE
; APPLICANT: CHANDLER, DANN
; TITLE OF INVENTION: THE TUMOR SUPPRESSOR CAR-1
; FILE REFERENCE: UTSC:651US
; CURRENT APPLICATION NUMBER: US/09/927,091
; CURRENT FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/227,560
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 60/225,033
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 475
; TYPE: PRT
; ORGANISM: Human
US-09-927-091-1
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Query Match 100.0% Score 2504; DB 9; Length 475;
Best Local Similarity 100.0%; Pred. No. 5.9e-168;
Matches 475; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MACSLKDELICISICSIYODPVSLGCEHYFCRCCTTEHVWROAOGARDPCRCRTFAP 60
DB 1 MACSLKDELICISICSIYODPVSLGCEHYFCRCCTTEHVWROAOGARDPCRCRTFAP 60
QY 61 ALAPSLKLANIYERSSPFLDAILNARRAARPCQAHDKKFLCTLDRAALCFCCBPALH 120
DB 61 ALAPSLKLANIYERSSPFLDAILNARRAARPCQAHDKKFLCTLDRAALCFCCBPALH 120
```

QY 121 EOHQVGTGIDAFDELQRELKQDLOALODSERHEHTALQLKROLAETKSTKSLRTTIGE 180
Db 121 EOHQVGTGIDAFDELQRELKQDLOALODSERHEHTALQLKROLAETKSTKSLRTTIGE 180
QY 181 APERHLRLREROKAMLEELADTARTLTIDIEQVQVRYSOQLRKVQGAQIIOERLAETD 240
Db 181 APERHLRLREROKAMLEELADTARTLTIDIEQVQVRYSOQLRKVQGAQIIOERLAETD 240
QY 241 RHTELAGVASLSERLKIKIHETNLTVEDPFTSKYTGLOYYTIKMSLFQDHPVPAALTTD 300
Db 241 RHTELAGVASLSERLKIKIHETNLTVEDPFTSKYTGLOYYTIKMSLFQDHPVPAALTTD 300
QY 301 PGTNHOGLIISDDCTIYAGNLHPQPLQDSPKRFDVEVSVLGSSEAFSSGVHWYVVAEK 360
Db 301 PGTNHOGLIISDDCTIYAGNLHPQPLQDSPKRFDVEVSVLGSSEAFSSGVHWYVVAEK 360
QY 361 TOWVIGLAHEAASRKSGIOIQPSRGFYCIWMHONGYQSACTEHWTLNVRDKLDKGVFL 420
Db 361 TOWVIGLAHEAASRKSGIOIQPSRGFYCIWMHONGYQSACTEHWTLNVRDKLDKGVFL 420
QY 421 DYDQGLIIFYNADMSWLYTFREKFPKGLCSYFSPQSHANGKNVOPLRINTVRI 475
Db 421 DYDQGLIIFYNADMSWLYTFREKFPKGLCSYFSPQSHANGKNVOPLRINTVRI 475

RESULT 2
US-09-927-091-2
; Sequence 2, Application US/09927091
; Patent No. US20020119541A1
; GENERAL INFORMATION:
; APPLICANT: KILLARY, ANN
; APPLICANT: LOTT, STEVE
; APPLICANT: CHANDLER, DAMN
; TITLE OF INVENTION: THE TUMOR SUPPRESSOR CAR-1
; FILE REFERENCE: UTSC:651US
; CURRENT APPLICATION NUMBER: US/09/927,091
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/227,560
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 60/225,033
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Human
US-09-927-091-2

Query Match 52.4%; Score 1312; DB 9; Length 304;
Best Local Similarity 91.8%; Pred. No. 1,2e-94;
Matches 257; Conservative 2; Mismatches 5; Indels 16; Gaps 1;
QY 1 MACSLKDELICISLIVQDPVSLGCEHYFCRCITTEHWVROEQAGARDCPCRRTFAP 60
Db 1 MACSLKDELICISLIVQDPVSLGCEHYFCRCITTEHWVROEQAGARDCPCRRTFAP 60
QY 61 ALAPSLKLANIYERSSFPDLAIINARAPPCQAHDKVKLFCITDRALLCFPCDEPALH 120
Db 61 ALAPSLKLANIYERSSFPDLAIINARAPPCQAHDKVKLFCITDRALLCFPCDEPALH 120
QY 121 EOHQVGTGIDAFDELQRELKQDLOALODSERHEHTALQLKROLAETKSTKSLRTTIGE 180
Db 121 EOHQVGTGIDAFDELQRELKQDLOALODSERHEHTALQLKROLAETKSTKSLRTTIGE 180
QY 181 APERHLRLREROKAMLEELADTARTLTIDIEQVQVRYSOQLRKVQGAQIIOERLAETD 240
Db 181 APERHLRLREROKAMLEELADTARTLTIDIEQVQVRYSOQLRKVQGAQIIOERLAETD 240
QY 241 RHTELAGVASLSERLKIKIHETNLTVEDPFTSKYTGLOYYTIKMSLFQDHPVPAALTTD 300
Db 241 RHTELAGVASLSERLKIKIHETNLTVEDPFTSKYTGLOYYTIKMSLFQDHPVPAALTTD 300

RESULT 3
US-09-731-872-466
; Sequence 466, Application US/09731872
; Patent No. US20020102604A1
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean Baptiste
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Bougueleret, Severin
; TITLE OF INVENTION: FULL-LENGTH HUMAN CDNA5 ENCODING POTENTIALLY SECRETED PROTEINS
; FILE REFERENCE: 78.US3.REG
; CURRENT APPLICATION NUMBER: US/09/731,872
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,629
; PRIOR FILING DATE: 1999-12-08
; PRIOR APPLICATION NUMBER: US 60/187,470
; PRIOR FILING DATE: 2000-03-06
; NUMBER OF SEQ ID NOS: 482
; SOFTWARE: Patent.pm
; SEQ ID NO 466
; LENGTH: 500
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-731-872-466

Query Match 24.5%; Score 613; DB 9; Length 500;
Best Local Similarity 31.6%; Pred. No. 1,1e-39;
Matches 148; Conservative 83; Mismatches 222; Indels 16; Gaps 8;
QY 8 ELICSLICSLIVQDPVSLGCEHYFCRCITTEHWVROEQAGARDCPCRRTFAPALAPSLK 67
Db 8 ELICSLICSLIVQDPVSLGCEHYFCRCITTEHWVROEQAGARDCPCRRTFAPALAPSLK 67
QY 38 ELHCPLCNDWFRDPLMISCGHNFCEACIDQFNLQAKE--TFPECKMLCQYNNCTFNPV 95
Db 38 ELHCPLCNDWFRDPLMISCGHNFCEACIDQFNLQAKE--TFPECKMLCQYNNCTFNPV 95
QY 68 LANIYERSSFPDLAIINARAPPCQAH-DKYKLFCLTDRALLCFPCDEPALH--EOHQ 124
Db 68 LANIYERSSFPDLAIINARAPPCQAH-DKYKLFCLTDRALLCFPCDEPALH--EOHQ 124
QY 96 LDKIYERIKKLP-----LKGHPOCEHGENIKLSPKPGKILCFQCKDARLSVGSKSE 149
Db 96 LDKIYERIKKLP-----LKGHPOCEHGENIKLSPKPGKILCFQCKDARLSVGSKSE 149
QY 125 VTGIDDAFDELQRELKQDLOALODSERHEHTALQLKROLAETKSTKSLRTTIGAFER 184
Db 125 VTGIDDAFDELQRELKQDLOALODSERHEHTALQLKROLAETKSTKSLRTTIGAFER 184
QY 150 FLOISDAVHFMEELIAQOSQLETTILKELOTLNMQKEALAAHKKMLHQQHVSNEFLK 209
Db 150 FLOISDAVHFMEELIAQOSQLETTILKELOTLNMQKEALAAHKKMLHQQHVSNEFLK 209
QY 185 LHLRLREROKAMLEELADTARTLTIDIEQVQVRYSOQLRKVQGAQIIOERLAETDRHTE 244
Db 185 LHLRLREROKAMLEELADTARTLTIDIEQVQVRYSOQLRKVQGAQIIOERLAETDRHTE 244
QY 210 LHQFLHSKEKDILTELRREBKALNEMELNLSQLOEQCLLAKDMLVSIQAKTEQGSFPF 269
Db 210 LHQFLHSKEKDILTELRREBKALNEMELNLSQLOEQCLLAKDMLVSIQAKTEQGSFPF 269
QY 245 LAGVASLSERLK--KIHET-NLTVEDPFTSKYTGLOYYTIKMSLFQDHPVPAALTTD 301
Db 245 LAGVASLSERLK--KIHET-NLTVEDPFTSKYTGLOYYTIKMSLFQDHPVPAALTTD 301
QY 270 LKDIITLHLSLEQGMVLAIRELISRLKMLGQYKGPIDYVWREMQDILCFGLSLPLTDP 329
Db 270 LKDIITLHLSLEQGMVLAIRELISRLKMLGQYKGPIDYVWREMQDILCFGLSLPLTDP 329
QY 302 GTAHORLIISDDCTIYAGNLHPQPLQDSPKRFDVEVSVLGSSEAFSSGVHWYVVAEK 361
Db 302 GTAHORLIISDDCTIYAGNLHPQPLQDSPKRFDVEVSVLGSSEAFSSGVHWYVVAEK 361
QY 330 KTAHPMLVLVSKSQTSVWHGDI--KKIMPDPERPDSSVAVLGSRGFTSGKRYWEVYAKT 388
Db 330 KTAHPMLVLVSKSQTSVWHGDI--KKIMPDPERPDSSVAVLGSRGFTSGKRYWEVYAKT 388
QY 362 QWVIGLAHEAASRKSGIOIQPSRGFYCIWMHONGYQSACTEHWTLNVRDKLDKGVFL 421
Db 362 QWVIGLAHEAASRKSGIOIQPSRGFYCIWMHONGYQSACTEHWTLNVRDKLDKGVFL 421
QY 389 KWTGVVRSIIRKSGCPLTPEQFWILRLRQDTLKDALDPSFSITLTNNLDKGIYLD 448
Db 389 KWTGVVRSIIRKSGCPLTPEQFWILRLRQDTLKDALDPSFSITLTNNLDKGIYLD 448
QY 422 YDQGLIIFYNADMSWLYTFREKFPKGLCSYFSPQSHANGKNVOPLR 470
Db 422 YDQGLIIFYNADMSWLYTFREKFPKGLCSYFSPQSHANGKNVOPLR 470
QY 449 YEGGQSLFNAKTMTHTITFSNTFMEKLYPYFCPLCINDR--ENKSPRLH 496
Db 449 YEGGQSLFNAKTMTHTITFSNTFMEKLYPYFCPLCINDR--ENKSPRLH 496

RESULT 4
US-09-876-997-466
; Sequence 466, Application US/09876997
; Patent No. US20030152921A1
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean Baptiste
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Bougueleret, Severin
; TITLE OF INVENTION: FULL-LENGTH HUMAN CDNA5 ENCODING POTENTIALLY SECRETED PROTEINS
; FILE REFERENCE: 78 USA CIP
; CURRENT APPLICATION NUMBER: US/09/876,997

```

; CURRENT FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: US 09/731,872
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/187,470
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: US 60/169,629
; PRIOR FILING DATE: 1999-12-08
; NUMBER OF SEQ ID NOS: 482
; SOFTWARE: Patent.pm
; SEQ ID NO 466
; LENGTH: 500
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-876-997-466

```

```

Query Match      24.5%; Score 613; DB 10; Length 500;
Best Local Similarity 31.6%; Pred. No. 1,86-39;
Matches 148; Conservative 83; Mismatches 222; Indels 16; Gaps 8;

```

```

QY      8 ELTCSICLSIYODPVSLGCEHYFCRCITENHWVROEGARDCEPCRRTPFAEPALPSLK 67
DB      38 ELHCPICNDWFRDPLMLSCGHNFCEACIODFRLQAKE--TFCECKMLCQYNNCTFNPV 95
QY      68 LANIVERYSFPLDALINARARPCOAH-DKYKLFCLTDRLALCFCEDEPALH--EQHQ 124
DB      96 LDKLVEKIKKLPL-----LKGHPQCPREHGENKLKFSKPDGKILCFQCKDARLSVGQSK 149
QY      125 VNGIDAPFELQELKDOLQALODSERHTEALQLKROLAETYSKTSKIRTTGAEFER 184
DB      150 FLDISAVAHFMEELAIQOGQLETTLKEQLTLNMOKEALAAHKKENKMLIQCHVSMFELK 209
QY      185 LHLRLBERKAMELEADPTARTLTLDIOKVGRVSQOLKRVQSGAQLDGERLAETBRHP 244
DB      210 LHOFLHSKKEKDLTELRREGKALNEMELNLSOLOQCLLAKMLVSIQAKTEQOQSFPD 269
QY      245 LAGVLSLSERLKG--KINET-NLTYEDFPRTSKYTGFLQYTIWKSLEFQDINHVPALTLDP 301
DB      270 LMDITLHLSLEGKMLVLAETRELISKMLGQYKGRIGYVWMEQMDLCPGSLPILDP 329
QY      302 GTHAORLLISDDCTIYAVGNLHROPLODSKPRFVSVLSGSAFSSGNYHVEVVAEKT 361
DB      330 KTAHPMLVLSKQTSVWHGDI--KKIMPDPERDSSVAVLGSRGTSKMYWEVEVAKKT 388
QY      362 QWVIGLAHRAASRKSIGIOPSRGFCYIVHNDGNOYSACTEPTRLNVBDKLDKGVFLD 421
DB      389 KMTVGVRRSILIRKSGCPLPEQGFMLRLRNQTDLKALDLPFSLSLTNNLDKVGILYD 448
QY      422 YDQGLLIIFYNADMSWLYTFREKFPGLKCSYFSGSHANGKVVPLRI 470
DB      449 YEGGQLSFYNAKMTHTIYTFSTFMFKLYVFCPCLANDGR-EKKEPLHI 496

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RESULT 5
US-09-925-301-943
; Sequence 943, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 943
; LENGTH: 580
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:

```

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; NAME/KEY: SITE
; LOCATION: (52)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (73)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-301-943

```

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Query Match      23.3%; Score 583; DB 9; Length 580;
Best Local Similarity 29.1%; Pred. No. 4,96-37;
Matches 153; Conservative 89; Mismatches 178; Indels 106; Gaps 16;

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QY      5 LKDELCSICLSIYODPVSLGCEHYFCRCITENHWVROEGARDCEPCRRTPFAEPALP 64
DB      77 LQGETTCPCVCLQYPAEPMWLDGCHNICACGLARCMTATVNS--CPQCRFTFPQRMKP 134
QY      65 SLKLANIVERYSFPLDALINARARPCOAH-DKYKLFCLTDRLALCFCEDEPALH--EQHQ 114
DB      135 NRIHLANVTQ-----LVKQLRTERPSGPGGEMGVCEKHEPPLKYCEEDQMPICVVC 185
QY      115 DEPALHEQHYVNGIDAPFELQELKDOLQALODSERHTEALQLKROLAETYSKTSKIRTTGAEFER 166
DB      186 DRSREHGHSHVPLLEAVGFEQYQONL-----DHLKRVQDKKRRRAQGEQARAE 237
QY      167 TKSSTKSLRTTIGAEFERLRLIRE--ROKAMLELE-----ADTA 205
DB      238 LLSLTQMEREKIWMERFEOYHSLKHEHYLLARLELDLAIYNSINGATPQSCNISHLS 297
QY      206 RFLTDIOKVGRVSQOLKRVQSGAQLDGERLAETDR-----HTFLACV 248
DB      298 SLIAQLEEKQOQPTREL-----LQDIDGTLRARRIRIRPEWITPPDQEKIHIFAQKC 351
QY      249 ASLSERLKKIHETNLTUTYEDFPRTSKYTGFLQYTIWKSLEFQDINHVP--PALTLDPGTAA 305
DB      352 LFLTSLK-----OFTKQSDMEK--IQELREQALYSVDVTLDPDTAY 393
QY      306 QRLISDDCTIYAVGNLHROPLODSKPRFVSVLSGSAFSSGNYHVEVVAEKTQWYI 365
DB      394 PSLISLNDNRQYRYSILO-QDLPDNERFNLPCVLGSGCFIAGNHYWEVEVGDAKMTI 452
QY      366 GLAHEAASRKSIGIOPSRGFCYIVHNDGNOYSACTEPTRLNVBDKLDKGVFLDYDQ 425
DB      453 GVCEDSVCKGVTSAPOGFWAVALMYGKEYWALTSPTALPLRLRQVGIPLDYDAG 512
QY      426 LLIIFYNADMSWLYTF-REKFPGLKCSYFSGSHANGKVVPLRI 470
DB      513 EVSFYNVTERCHTFTFSHATFCGPVRPYPS--LSYSGKSAAPLII 556

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RESULT 6
US-10-276-372-2
; Sequence 2, Application US/10276372
; Publication No. US20030186269A1
; GENERAL INFORMATION:
; APPLICANT: Cocude, Cecile
; APPLICANT: Bahr, Georges
; APPLICANT: Capron, Andre
; TITLE OF INVENTION: SSA-56 kDa Polypeptide and its Fragments and Polynucleotides
; FILE REFERENCE: 017753-171
; CURRENT APPLICATION NUMBER: US/10/276,372
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: FR 00/06315
; PRIOR FILING DATE: 2000-05-17
; PRIOR APPLICATION NUMBER: PCT/FR 01/00725
; PRIOR FILING DATE: 2001-03-12
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 485
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-276-372-2

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```

Query Match      22.0%; Score 550.5; DB 14; Length 485;
Best Local Similarity 29.3%; Pred. No. 1,4e-34;
Matches 150; Conservative 94; Mismatches 181; Indels 87; Gaps 17;

QY 4 SLKDELLCSICLSIYODPVSLGCEHYFCRCRTEHM-VROBAOG-ARDCEGCRTPABPA 61
DB 9 AIVEBACPICMFTFLRPMISIDGHSFCHSCLSGIMELPESQWNGYTCPLCAAPQPRN 68
QY 62 LAPSLKLANIVERSSPFLDALINARAPCOAH-DKYKLFCLTDRLALCFPCDEBALH 120
DB 69 LRPWQLANVVEKRLRLRHPGMLK-GDLCEHGEKLMFCKEDVLIMCEACSQSPBH 126
QY 121 EOHQVTGIDAFDELQRELKDQLOALODSREHTEALQILKQLAET-KSSTKSLRTTIG 179
DB 127 EAHSVPMEDVAMEYKWEHLHEALHLK-KEQEBAMKLEVGERRKRTATWKIQVETRKQSIIV 185
QY 180 EAFERHLRLERQKAMLEBELADTARTLTDIEQVQVRSQQLR---KVQEGAQILQER 235
DB 186 WEFERYQRLLEKKQPPH-RQLGAEVAAALASIQREAAETWQKLELNHSELIQSQVLMRM 244
QY 236 LAETDRHTFLAGVASLSERLKGKIHETNLTYDEPFSKTYGPIQYTIWKSIFODI----- 290
DB 245 IAE-----LKERSORPVR-----W-MLODIOEVLN 268
QY 291 -----HPVPAAL-----TLDPGTAAHQRLILSDCTIYVAG 320
DB 269 RSKWSLSIQPEPISLELTKDCRVLGLRELKTYAADVRLDPTAISRILVSEKRKHVYG 328
QY 321 NLHPOPLDPSPKRFDVENVSLGSEAFSSGVHWVEVVAEKTQWVIGLAHEAASRKSGSIQI 380
DB 329 DTN-QKLPDNERFRYRNIVLGSQCISGRHWVEVGESEWGLGVCKQNVDRKEVYVL 387
QY 381 QPSRGFYCIWMHONGQYSACTEPWTRLNVRDKLDKGVFLDYDQGLLIFYNADM-SWLY 439
DB 388 SPHYGFVWIRLRKGNBYAGTDEYILSLPVRPRRGIVFYVYEAHDISFYVNTDGSHTF 447
QY 440 TF-REKFRGKLCSTYFSGSHANGKAVQPIRI 470
DB 448 TPRRYPPRGRLPYFSPCYs-IGTNNTAPLAI 478

RESULT 7
US-10-473-576-1
; Sequence 1 Application US/10473576
; Publication No. US20040101884A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE CORPORATION
; APPLICANT: LU, DYUNG AINA M.
; APPLICANT: ARVIZU, CHANDRA S.
; APPLICANT: GANDHI, AMENA R.
; APPLICANT: HAFALIA, APRIL J.A.
; APPLICANT: DING, LI
; APPLICANT: LU, YAN
; APPLICANT: RAMKUMAR, JAYALAKMI
; APPLICANT: SWARNAKAR, ANITA
; APPLICANT: TANG, Y. TOM
; APPLICANT: YUE, HENRY
; APPLICANT: TRAN, BNO
; APPLICANT: LEE, SOO YUEN
; APPLICANT: WARREN, BRIDGET A.
; APPLICANT: NGUYEN, DANIEL B.
; APPLICANT: THANGAVELU, KAVITHA
; APPLICANT: YAO, MONIQUE G.
; APPLICANT: ELIOTT, VICKI S.
; APPLICANT: BAUGHN, MARIAH R.
; APPLICANT: EMERLING, BROOKE M.
; APPLICANT: LAL, PREETI G.
; APPLICANT: GIERTZEN, KIMBERLY J.
; APPLICANT: BECHA, SHANYA D.
; APPLICANT: MARQUIS, JOSEPH P.
; APPLICANT: KABLE, AMY E.
; TITLE OF INVENTION: MOLECULES FOR DISEASE DETECTION AND TREATMENT

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; FILE REFERENCE: PF-0921 USN
; CURRENT APPLICATION NUMBER: US/10/473,576
; CURRENT FILING DATE: 2003-09-29
; PRIOR APPLICATION NUMBER: PCT/US02/09809
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/280,387
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 60/282,335
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/286,663
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: US 60/285,484
; PRIOR FILING DATE: 2001-04-19
; PRIOR APPLICATION NUMBER: US 60/350,702
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 60/351,749
; PRIOR FILING DATE: 2002-01-25
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PERL Program
; SEQ ID NO 1
; LENGTH: 485
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 71230017CD1
US-10-473-576-1

Query Match      22.0%; Score 550.5; DB 16; Length 485;
Best Local Similarity 29.3%; Pred. No. 1,4e-34;
Matches 150; Conservative 94; Mismatches 181; Indels 87; Gaps 17;

QY 4 SLKDELLCSICLSIYODPVSLGCEHYFCRCRTEHM-VROBAOG-ARDCEGCRTPABPA 61
DB 9 AIVEBACPICMFTFLRPMISIDGHSFCHSCLSGIMELPESQWNGYTCPLCAAPQPRN 68
QY 62 LAPSLKLANIVERSSPFLDALINARAPCOAH-DKYKLFCLTDRLALCFPCDEBALH 120
DB 69 LRPWQLANVVEKRLRLRHPGMLK-GDLCEHGEKLMFCKEDVLIMCEACSQSPBH 126
QY 121 EOHQVTGIDAFDELQRELKDQLOALODSREHTEALQILKQLAET-KSSTKSLRTTIG 179
DB 127 EAHSVPMEDVAMEYKWEHLHEALHLK-KEQEBAMKLEVGERRKRTATWKIQVETRKQSIIV 185
QY 180 EAFERHLRLERQKAMLEBELADTARTLTDIEQVQVRSQQLR---KVQEGAQILQER 235
DB 186 WEFERYQRLLEKKQPPH-RQLGAEVAAALASIQREAAETWQKLELNHSELIQSQVLMRM 244
QY 236 LAETDRHTFLAGVASLSERLKGKIHETNLTYDEPFSKTYGPIQYTIWKSIFODI----- 290
DB 245 IAE-----LKERSORPVR-----W-MLODIOEVLN 268
QY 291 -----HPVPAAL-----TLDPGTAAHQRLILSDCTIYVAG 320
DB 269 RSKWSLSIQPEPISLELTKDCRVLGLRELKTYAADVRLDPTAISRILVSEKRKHVYG 328
QY 321 NLHPOPLDPSPKRFDVENVSLGSEAFSSGVHWVEVVAEKTQWVIGLAHEAASRKSGSIQI 380
DB 329 DTN-QKLPDNERFRYRNIVLGSQCISGRHWVEVGESEWGLGVCKQNVDRKEVYVL 387
QY 381 QPSRGFYCIWMHONGQYSACTEPWTRLNVRDKLDKGVFLDYDQGLLIFYNADM-SWLY 439
DB 388 SPHYGFVWIRLRKGNBYAGTDEYILSLPVRPRRGIVFYVYEAHDISFYVNTDGSHTF 447
QY 440 TF-REKFRGKLCSTYFSGSHANGKAVQPIRI 470
DB 448 TPRRYPPRGRLPYFSPCYs-IGTNNTAPLAI 478

RESULT 8
US-10-094-749-2615
; Sequence 2615 Application US/10094749
; Publication No. US20030219741A1

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/ GENERAL INFORMATION:
/ APPLICANT: ISOGAI, TAKAO
/ APPLICANT: SUGIYAMA, TOMOYASU
/ APPLICANT: OTSUKI, TETSUJI
/ APPLICANT: WAKAMATSU, AI
/ APPLICANT: SATO, HIROYUKI
/ APPLICANT: ISHII, SHIZUKO
/ APPLICANT: YAMAMOTO, JUN-ICHI
/ APPLICANT: ISONO, YUUKO
/ APPLICANT: HIO, YURI
/ APPLICANT: OTSUKA, KAORU
/ APPLICANT: NAGAI, KEIICHI
/ APPLICANT: IRIE, RYOTARO
/ APPLICANT: TAMECHIKA, ICHIRO
/ APPLICANT: SEKI, NAOHICO
/ APPLICANT: YOSHIKAWA, TSUTOMU
/ APPLICANT: OTSUKA, MOTOKYUJI
/ APPLICANT: NAGAHARI, KENJI
/ APPLICANT: MASUHO, YASUHIKO
/ TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
/ FILE REFERENCE: 084335/0160
/ CURRENT APPLICATION NUMBER: US/10/094,749
/ CURRENT FILING DATE: 2002-03-12
/ PRIOR APPLICATION NUMBER: 60/350,435
/ PRIOR FILING DATE: 2002-01-24
/ PRIOR APPLICATION NUMBER: JP 2001-328381
/ PRIOR FILING DATE: 2001-09-14
/ NUMBER OF SEQ ID NOS: 3381
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO 2615
/ LENGTH: 485
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-094-749-2615

Query Match      21.6%; Score 541.5; DB 15; Length 485;
Best Local Similarity 28.5%; Pred. No. 7e-34;
Matches 148; Conservative 94; Mismatches 176; Indels 101; Gaps 17;
```

```
4 SKDELICISLCISTYODPVSLGCEHYFCRCI-----TEHWROEAGARDCEPER 54
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
9 AIVEEACPICMTFLPEMSIDCGHSCSLGSLREIPGESQNW-----GYTCPLCR 61
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
55 RFFAEALALSLKLANIYERYSFPLDALINARARPCQAH-DKYKLCFLDRLALCF 113
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
62 APOVPRNLSPNNQALAVNEKVRLLRLHPCMGK--GDLCEHGEKLMFCCKEDVLIMCEA 119
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
114 CDEPALHEOHQVYTGIDAFDELQRELKDQLOALODSEREHTALQLKQLAET-KSSTK 172
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
120 CGQSPREHNSVVPMEADVAMEYKMELEHLEHLK-KEQEEAMKLEVGEEKRTATMKIQVE 178
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
173 SLRTTIGAEFERLHLRLEROKAMELEADTARTLTIDIEOKVORYSQOLR-----KVQEG 228
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
179 TKQOSIVMEFEKQYRLLEKQPPH-RQLGAEVAAALASLOREAAETMQKLELNHSELIOQ 237
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
229 AAILQERLAETDRHTLAAGVASSERLKGKIHETNLTIEDFPSTKTTGELQYTIWKSLL 288
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
238 SQVLMRMIAE-----LKEKSORPVR-----W--MDQ 261
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
289 DI-----HPVPAAL-----TLDPGTAHORLILSD 313
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
262 DIQEVNLRKSKWSLQOPEPISLELTKDCVNLGAREILKTYAADVRLDPTATSRLLVSED 321
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
314 CTIVAYGNLHPQPLQDSPKRFDEVSVLGSEAFSSGVHYVEVVAEKTQWIGLAHEAAS 373
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
322 RKRNVHGDTH-QYLPNPERFYRYNIVLGSQCISGRHYWEVEVGDRSEMGGLVCQOND 380
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
374 RRGSIQIQSRGRCYCCVMDGNOYSCTEPTWRLNARDKDKGVGLVDYDQGLLRYNAD 433
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
381 RREVVYLSHYGQWVLRKGNENYRAGTDEYPLLSLPVPRRGITVDYEAHDHSFYNT 440
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
434 DM-SWLYTF-REKFPGLCSYFSPQSHANGKVQPLRI 470
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

```
DB      441 DCGSHIFTEPRYFPFGRLLPYFSPCVS-IGTNNVAPLAI 478

RESULT 9
US-10-104-047-3482
/ Sequence 3482, Application US/10104047
/ Publication No. US20030236392A1
/ GENERAL INFORMATION:
/ APPLICANT: HELIX RESEARCH INSTITUTE
/ TITLE OF INVENTION: NO. US20030236392A1el full length cDNA
/ FILE REFERENCE: H1-A0105
/ CURRENT APPLICATION NUMBER: US/10/104,047
/ CURRENT FILING DATE: 2002-03-25
/ PRIOR APPLICATION NUMBER:
/ PRIOR FILING DATE:
/ NUMBER OF SEQ ID NOS: 4096
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO 3482
/ LENGTH: 471
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-104-047-3482
```

```
Query Match      20.0%; Score 501; DB 15; Length 471;
Best Local Similarity 29.4%; Pred. No. 1e-30;
Matches 143; Conservative 91; Mismatches 208; Indels 44; Gaps 14;
```

```
4 SKDELICISLCISTYODPVSLGCEHYFCRCITTEHWROEAGARDCEPERFAEPALA 63
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
9 NIQESSCPICIEYKDPVTINCGHNFCSRCLSVW--KDLDTPPCPVCRCFCPYKSPR 66
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
64 PSKLANIYERYSFPLDALINARARP-----COAHDK-VYKLCFLDRLALCFCD 115
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
67 RNPQRLNLT-----IAKQLIRSKRKROKENAMCEKHNQFLTFCVKDELICTQCS 120
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
116 BPALHEOHQVYTGIDAFDELQRELKDQLOALODSEREHTALQLKROLAETKSSSTKSLR 175
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
121 PSTKQKHICICIKKAASVHREILBGSLEPLNINERVEKVIILQSKSVELKKYVEYR 180
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
176 TTIGAEFERLHLRLEROKAMELEADTARTLTIDIEOKVORYSQOLRVVQGAQILQER 235
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
181 EEINSEFEQIRLFLNBOEMILRQIODEEMNLA-----KINENVELSDYVSTLKL 233
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
236 LAETDRHTLAAGVASSERLKGKIH-EVLTIED---PPTKY--TGPLQYTIWKSLLPD 289
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
234 LREVEGKSVQSWLELTLTQ-AKSMHKKYQVLCPELFSFLTYRGSLPQYS--GLDRI 289
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
290 HPVPAALTLDPGTAHORLILSDCTIVAYGNLHPQPLQDSPKRFDEVSVLGSEAFSSG 349
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
290 IKFPQVDVLDLNTAHPQLVSEDRKAVYERKKKNICVD-PRRFYVCPAVLGSQRFSSG 348
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
350 VHYWEVVAEKTQWIGLAHEAASRGSIQIQPS--RGFYCIWMDGNOYSCTEPTWRL 407
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
349 RHVEVEVGNKPKWILGVCQDCLLR--NWQDPSVLGGMALGRYKWSGYVAGPXTOL 406
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
408 NVRDLKDKGVGLVDYDQGLLRYNADDMGMYLTFREKFPGLCSYFSPQSHANGKVQ 467
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
407 LPVVPKSGITGLDYDELGDSLYNMNDRSLITVDFDCFEAVVPYF-----YTGIDSEP 460
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
468 LRINTV 473
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
461 LKICSV 466
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 10
US-10-104-047-3664
/ Sequence 3664, Application US/10104047
/ Publication No. US20030236392A1
/ GENERAL INFORMATION:
/ APPLICANT: HELIX RESEARCH INSTITUTE
/ TITLE OF INVENTION: NO. US20030236392A1el full length cDNA
/ FILE REFERENCE: H1-A0105
/ CURRENT APPLICATION NUMBER: US/10/104,047
```

; CURRENT FILING DATE: 2002-03-25
 ; PRIOR APPLICATION NUMBER:
 ; PRIOR FILING DATE:
 ; NUMBER OF SEQ ID NOS: 4096
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3664
 ; LENGTH: 468
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-104-047-3664

Query Match 20.0%; Score 500; DB 15; Length 468;
 Best Local Similarity 27.5%; Pred. No. 1.2e-30;
 Matches 133; Conservative 91; Mismatches 212; Indels 48; Gaps 11;

```

QY 4 SLKDELICSLISYQDVSLGCEHYFCRCITETHWYRQEAQARDCPECRTTAP 63
DB 9 NLREELTFCIDYDFSSVTECHSFLVCLRSW--EEHNTPLSCPECMTLEGPHFQ 66
QY 64 PSKIANIVERYSFPDIAINARRARPCOAHDKVLFCLTDRALCFCDDEPA----- 118
DB 67 SNERLGRU-----ASIRQLRSQVLSDEDEGOSYGRMPTTAKASDDQGSAPV 116
QY 119 --LHEQYVGTIDAFPELORELKQLOALQDSEREHTALQULKQLAETKSTKSLRT 176
DB 117 AOSHGNARVHLSSAEHREKLOEITLILRVRRKEQAVALTHEKRVKLCQETKCKQ 176
QY 177 TICGAFERLRLREROKAMLEIEADPTARTLDIQKQRYGQQRKQOEAQIIQERL 236
DB 177 VVVEYWKMHQPLKEHQLOLQLEDEKKNMKLNNEIKLQITRS-----LSKMI 229
QY 237 AEDRHTFLAGVASLSERLKGKHET-----NLTYEDPFSKYTGPLQYTIWKSLEQ 288
DB 230 AQLESSESQASPSL-EEVGALEERSEPLLQCPKATTELELCRTG-----ME 279
QY 289 DIHVPALTLDDGTAGHRLISDDCTIAYGMLHQPQDSKPRDVSIVLSEBAPSS 348
DB 280 MUKFETETLDPATANAIVLSEDLKSVYGGSR-QQLPDPBERDOSATVLTGQIFTS 338
QY 349 GVIYEVVAEKTQWVIGLAHEAASRKSGIOIQPSKFCYIVMHQNOVSA-CTEPMWRL 407
DB 339 GRHYVEVGNKTEWEGICKDSVSRKGLPKPBGDLFELIKLKGDDVLSLWVSSPLKQ 398
QY 408 NVYBDKDKYGVFLDYQGLLIFYNADDMWLYTF-REKFGKLCYFSPGOSHANGXVQ 466
DB 399 HVRREPKCKGVFLDIESHGIAFYNGTDESLIYSPQASFOEALRPIFSPCLPN-EGTWTD 457
QY 467 PLRI 470
DB 458 PLTI 461
  
```

RESULT 11

; Sequence 74, Application US/10093463
 ; Publication No. US20030208039A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Padigaru, Muralidhara
 ; APPLICANT: Shenoy, Suresh
 ; APPLICANT: Kekuda, Ramesh
 ; APPLICANT: Gusev, Vladimir
 ; APPLICANT: Pochart, Pascal
 ; APPLICANT: Zhong, Mei
 ; APPLICANT: Raestelli, Luca
 ; APPLICANT: Mezes, Peter
 ; APPLICANT: Smithson, Glennda
 ; APPLICANT: Guo, Xiaojia
 ; APPLICANT: Gerlach, Valerie
 ; APPLICANT: Caeman, Stacie
 ; APPLICANT: Boldog, Ferenc
 ; APPLICANT: Li, Li
 ; APPLICANT: Zephusen, Bryan
 ; APPLICANT: Tchernev, Velizar

; APPLICANT: Gangoli, Esha
 ; APPLICANT: Vernet, Corine
 ; APPLICANT: Pena, Carol
 ; APPLICANT: Burgess, Catherine
 ; APPLICANT: Liu, Xiaohong
 ; APPLICANT: Spytek, Kimberly
 ; APPLICANT: Gorman, Linda
 ; APPLICANT: Spaderma, Steven
 ; APPLICANT: Voss, Edward
 ; APPLICANT: Malyankar, Uriel
 ; APPLICANT: Anderson, David
 ; APPLICANT: Paturajan, Meera
 ; APPLICANT: Miller, Charles
 ; APPLICANT: Taupier, Raymond J. Jr.
 ; TITLE OF INVENTION: No. US20030208039A1 Antibodies that Bind to Antigenic Polypept
 ; FILE REFERENCE: 21402-290A (Cura 590AT)
 ; CURRENT APPLICATION NUMBER: US/10/093,463

; PRIOR FILING DATE: 2002-06-24
 ; PRIOR APPLICATION NUMBER: 60/283,675
 ; PRIOR FILING DATE: 2001-04-14
 ; PRIOR APPLICATION NUMBER: 60/338,092
 ; PRIOR FILING DATE: 2001-12-03
 ; PRIOR APPLICATION NUMBER: 60/274,281
 ; PRIOR FILING DATE: 2001-03-08
 ; PRIOR APPLICATION NUMBER: 60/274,101
 ; PRIOR FILING DATE: 2001-03-08
 ; PRIOR APPLICATION NUMBER: 60/325,681
 ; PRIOR FILING DATE: 2001-09-27
 ; PRIOR APPLICATION NUMBER: 60/304,354
 ; PRIOR FILING DATE: 2001-07-10
 ; PRIOR APPLICATION NUMBER: 60/279,995
 ; PRIOR FILING DATE: 2001-03-30
 ; PRIOR APPLICATION NUMBER: 60/294,899
 ; PRIOR FILING DATE: 2001-05-31
 ; PRIOR APPLICATION NUMBER: 60/287,424
 ; PRIOR FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: 60/299,027
 ; PRIOR FILING DATE: 2001-06-18
 ; PRIOR APPLICATION NUMBER: 60/309,198
 ; PRIOR FILING DATE: 2001-07-31
 ; PRIOR APPLICATION NUMBER: 60/281,194
 ; PRIOR FILING DATE: 2001-04-04
 ; PRIOR APPLICATION NUMBER: 60/274,194
 ; PRIOR FILING DATE: 2001-03-08
 ; PRIOR APPLICATION NUMBER: 60/274,849
 ; PRIOR FILING DATE: 2001-03-09
 ; PRIOR APPLICATION NUMBER: 60/330,380
 ; PRIOR FILING DATE: 2001-10-18
 ; PRIOR APPLICATION NUMBER: 60/275,235
 ; PRIOR FILING DATE: 2001-03-12
 ; PRIOR APPLICATION NUMBER: 60/288,342
 ; PRIOR FILING DATE: 2001-05-03
 ; PRIOR APPLICATION NUMBER: 60/275,578
 ; PRIOR FILING DATE: 2001-03-13
 ; NUMBER OF SEQ ID NOS: 370
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 74

; LENGTH: 4675
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-093-463-74

Query Match 19.9%; Score 499.5; DB 15; Length 4675;
 Best Local Similarity 27.2%; Pred. No. 3.1e-29;
 Matches 166; Conservative 68; Mismatches 187; Indels 189; Gaps 18;

```

QY 1 MACSLKDELICSLISYQDVSLGCEHYFCRCITETHWYRQEAQARDCPECRTTAP 60
DB 4076 LSTNLOEBATCAICDYDTPVMDCGHNRCEIRCKWQPE--GFYACPECELSFQR 4133
QY 61 ALAPSKIANIVERYSFPDIAINARRARPCOAHDKVLFCLTDRALCF 112
  
```

```

Db      4134 NLRPNRPLAKMAEM-----ARLRHPPSPVPGVCPAHRREPLAACGDELRLLCA 4182
Qy      113 FCDERPLHQOYVTGIDDAFDELQRELKQOLQADSEEHTEBALQLRQLAET---K 168
Db      4183 ACERSEEHMAHVRPLQDAAEDLKAKLEKSLHTL---RKQMDALLFOADQDETCVIMQ 4238
Qy      169 SSTKSLRTTIGAFERHLRLRE-----ROKAMLEELATPARTL----- 208
Db      4239 KMYESORQNVLOEFERHLRLRLBEGTAAAEAGEEBELKOSAHLELRLERPLPAACG 4298
Qy      209 -----TDIEOKVQRYSOQLRKVQEGAQILQERLAETDNH 242
Db      4299 AAAGSPWCGLHSLRPPGVGFPWCTPKRPEPDALACAMR-----QCGQVQVETMQ 4352
Qy      243 TFLAGVASLSERLKGKIHETNLTYEDFPFSKYTGP---LQYTIWK-----SLFQDTH 291
Db      4353 MWLGFAQGVTLPLPASGAQONI-----SPGTGSWFRLSFLFLFKYKCSQSAVALTRMVH 4405
Qy      292 -----PVPA----- 296
Db      4406 TVPKTKRPGCGGSLPSPSPAPAPAGLVATTCTQMTPGVGRPPQDIKDALRRVQDYK 4465
Qy      297 -----LTLDPGTAHQRLILSDCTIYAAGNLHPQP 326
Db      4466 LGPPEVVPWELRTVCVPGVLVETLRFRGDVTLDPTANPELILSDRRSVQRGDLR-QA 4524
Qy      327 LODSPRRFVEVSVLGSSEAFSSGVHYWEVVAEKTQWVIGLAHEAASRKSGSIQIOPSRF 386
Db      4525 LPDSBERFDPGCPVIGQERFTSGRHYWEVVGDRITSMALGVCENNRKEKELSGNCF 4584
Qy      387 YCFIWHNDGQYASCTEPMWRLNVRDLKDKVGVFLVDQGLIFYNADMSWLYTFPE-KF 445
Db      4585 WLVLVE-GSYIYSSERAPLPL--RDPFRVGLFLDYEAGHLSTFYSATDSLLFLTFEIRP 4641
Qy      446 PGKLCGYSP 455
Db      4642 SGTLRPLFSP 4651

```

```

RESULT 12
US-10-024-298A-97
; Sequence 97, Application US/10024298A
; Publication No. US20030143540A1
; GENERAL INFORMATION:
; APPLICANT: ASAHI KASEI KABUSHIKI KAISHA
; APPLICANT: AKIO MATSUDA
; APPLICANT: GOICHI HONDA
; APPLICANT: SHUJI MURAMATSU
; APPLICANT: YUKIKO NAGANO
; TITLE OF INVENTION: NF-K B Activating Gene
; FILE REFERENCE: 1254-0191P
; CURRENT APPLICATION NUMBER: US/10/024, 298A
; PRIOR FILING DATE: 2003-04-08
; PRIOR APPLICATION NUMBER: 60/314,385
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/278,641
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: 60/258,315
; PRIOR FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: JP254018/2001
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: JP0088912/2001
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: 2001-03-26
; PRIOR FILING DATE: 2000-12-28
; PRIOR FILING DATE: 2000-12-28
; NUMBER OF SEQ ID NOS: 182
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 97
; LENGTH: 465
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-024-298A-97

```

```

Query Match      19.6%; Score 492; DB 14; Length 465;
Best Local Similarity 29.3%; Pred. No. 5,1e-30;
Matches 137; Conservative 80; Mismatches 206; Indels 44; Gaps 11;

Qy      5 LKDELLCSICISYDDPVSIGCEHYFCRCCTTEHWROBAGARD---CPECRTPFAEP 60
Db      10 MMEBATCSICISIMTNPVSINGSHSYCHLCITDFPKNPSQKOLROBETFCPCCRAPFHMND 69
Qy      61 ALAPSLKLANIYERSSPFLDALILNARRAARCOAH-DKVKLCFLTDLALGFFDEPAL 119
Db      70 SLRPNKQSLSLIE-----ALKETDQMSCEEHGEQFLFCDEGQLICRGERAPQ 120
Qy      120 HEOHVTGIDDAFDELQRELKQOLQADSEEHTEALQLRQLAETKSTKSRRTTIG 179
Db      121 HGGHTALVEDVCQGYKEKLEAAYTKLQLEBRCETQKSLTMRITTKMEKQIQOKIR 180
Qy      180 EAFERHLRLRERQKAMLEELADPARTLT---DIEOKVQRYSOQLR-----KVDEG 228
Db      181 SDFKNLQCFLHEEKESYLWRLERKEQOTLSRLDYEAGLGLKSNELKSHILEEKQGS 240
Qy      229 AQILOERLAETPRHFLFAGVASLSERLKGKIHETNLTYEDFPFSKYTGPLOQYTIKSLFQ 288
Db      241 AOKLQNVNDT-----LSRSMAVKLETSEAVSLELHTMCNVSKLYEDVKKMLRS 289
Qy      289 DTHPVPAALTLDPGTAHQRLILSDCTIYAAGNLHPQLOD-SPKRPDVEVSVLGSSEAFS 347
Db      290 --HOV--SVTLDPDTAHEHLISEBRQVTRG--YTQENQDSSSRFTAFPCVLGCEGFT 343
Qy      348 SGVHYWEVVAEKTQWVIGLAHEAASRKSGSIQIOPSRGFYCIWMDGNQYSACTEPMWRL 407
Db      344 SGRARFVEVDVGSGTGMIDGVCMENVRGTGMKQEPQSGFWTLRLCKKSGVALTSPPTSL 403
Qy      408 NVKDLKDKGVFLVDQGLIFYNADMSWLYTF-REKPGKLCGYF 453
Db      404 HLHEQPLVLGIFLDYEGAVSEYNGNTGCHTFPKASPSDTLRBYF 450

```

```

RESULT 13
US-10-042-211A-97
; Sequence 97, Application US/10042211A
; Publication No. US20030170719A1
; GENERAL INFORMATION:
; APPLICANT: MATSUDA, AKIO et al.
; TITLE OF INVENTION: NFkB Activating Gene
; FILE REFERENCE: 1254-0192P
; CURRENT APPLICATION NUMBER: US/10/042, 211A
; PRIOR FILING DATE: 2002-01-11
; PRIOR APPLICATION NUMBER: JP 2000-402288
; PRIOR FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: JP 2001-088912
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: JP 2001-254018
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/258,315
; PRIOR FILING DATE: 2000-12-28
; PRIOR APPLICATION NUMBER: US 60/278,640
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: 2001-03-26
; PRIOR FILING DATE: 2000-12-28
; PRIOR FILING DATE: 2001-08-24
; NUMBER OF SEQ ID NOS: 182
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 97
; LENGTH: 465
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-042-211A-97

```

```

Query Match      19.6%; Score 492; DB 14; Length 465;
Best Local Similarity 29.3%; Pred. No. 5,1e-30;
Matches 137; Conservative 80; Mismatches 206; Indels 44; Gaps 11;

Qy      5 LKDELLCSICISYDDPVSIGCEHYFCRCCTTEHWROBAGARD---CPECRTPFAEP 60

```

```

Db      10 MMEBATSICLSLMTNPVINCISHYCHLCTIDFFKNPSQKQLQETPCPCQCAPFHM 69
Qy      61 ALAPSLKLANIVERYSPPDLAILNARRAAPCOAH-DKYKLPCLTRALICFFCDEPAL 119
       70 SLRPNKQGLSLIE-----ALKETDQEMSCHEHGFHLFCEDBQGLICWRCEAPQ 120
Qy      120 HEQHOVTGIDDAFDELQREIKDQLOALQDSEHTEALQLKROLAETKSTKSLRTTIG 179
       121 HKGHTTALVEDVCCGYKEKLOEAVTKLKQLEDRCTEQKLTAMRITTKMKVQIQOKIR 180
Qy      180 EAFERHLRLREROKAMLEELADTARTLT---DIEQVQVYQQQLR-----KYQEG 228
       181 SDFKNLOCFHBEESYIMRLEKEEQUTLSLRDYENAGLQKSNELSHILEEKCQGS 240
Qy      229 AQLIOERLAETDRHTFLAGVASLSERLKGKHETNLTYEDPPTSKYTGPIQYTIWKSIFQ 288
       241 AQLKLOVNDT-----LSRMAVKLETSEAVSLIELHTMCNVSKLYPEVKKMLRS 289
Qy      289 DHPVPAALTLDPGTAHQRLILSDCTTIVAYGNLHPLOLD-SPKRPDEVSVLQSEAFS 347
       290 --HOV--SVTLDPDTAHEHLILSEDRQVTRG--YTQENDPSSRRFTAFPCVLGCEGFT 343
Db      348 SGVHWYEVVAEKTQWVIGLAHEAASRKSIOIQPSRGFYCIWMDGNQYACTEPWTRL 407
       344 SGRRYFEVDVGEIGMDLGVCMENVOQKTMKQEPQSGFWTLRLCKKKGYVALTSPPTSL 403
Qy      408 NVBKLDRKGVPLDYDQGLIFYNADMSWLTYF-REKFPGLCSYF 453
       404 HLHEQPLLVGIFLDYEAGVVSFYNGNTGCHIFTFPKASFSDTLRPF 450

```

```

RESULT 14
US-10-617-217A-97
/ Sequence 97, Application US/10617217A
/ Publication No. US20040081986A1
/ GENERAL INFORMATION:
/ APPLICANT: MATSUDA, Akio et al.
/ TITLE OF INVENTION: NF-KB ACTIVATING GENE
/ FILE REFERENCE: 1254-0229P
/ CURRENT APPLICATION NUMBER: US/10/617,217A
/ PRIOR FILING DATE: 2003-07-11
/ PRIOR APPLICATION NUMBER: JP 2000-402288
/ PRIOR FILING DATE: 2000-12-28
/ PRIOR APPLICATION NUMBER: JP 2001-088912
/ PRIOR FILING DATE: 2001-03-26
/ PRIOR APPLICATION NUMBER: JP 2001-254018
/ PRIOR FILING DATE: 2001-08-24
/ PRIOR APPLICATION NUMBER: US 60/258,315
/ PRIOR FILING DATE: 2000-12-28
/ PRIOR APPLICATION NUMBER: US 60/278,640
/ PRIOR FILING DATE: 2001-03-26
/ PRIOR APPLICATION NUMBER: US 60/314,385
/ PRIOR FILING DATE: 2001-08-24
/ NUMBER OF SEQ ID NOS: 224
/ SOFTWARE: Patent In Ver. 2.0
/ SEQ ID NO 97
/ LENGTH: 465
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-617-217A-97

```

```

Query Match      19.6%; Score 492; DB 15; Length 465;
Best Local Similarity 29.3%; Pred. No. 5,1e-30;
Matches 137; Conservative 80; Mismatches 206; Indels 44; Gaps 11;

Qy      5 LKDELLCSICLSIYQDPVSLGCEHFCRCCTTEHWVROEAQARD---CEPCRTFAEP 60
       10 MMEBATSICLSLMTNPVINCISHYCHLCTIDFFKNPSQKQLQETPCPCQCAPFHM 69
Qy      61 ALAPSLKLANIVERYSPPDLAILNARRAAPCOAH-DKYKLPCLTRALICFFCDEPAL 119
       70 SLRPNKQGLSLIE-----ALKETDQEMSCHEHGFHLFCEDBQGLICWRCEAPQ 120

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Qy      120 HEQHOVTGIDDAFDELQREIKDQLOALQDSEHTEALQLKROLAETKSTKSLRTTIG 179
       121 HKGHTTALVEDVCCGYKEKLOEAVTKLKQLEDRCTEQKLTAMRITTKMKVQIQOKIR 180
Qy      180 EAFERHLRLREROKAMLEELADTARTLT---DIEQVQVYQQQLR-----KYQEG 228
       181 SDFKNLOCFHBEESYIMRLEKEEQUTLSLRDYENAGLQKSNELSHILEEKCQGS 240
Qy      229 AQLIOERLAETDRHTFLAGVASLSERLKGKHETNLTYEDPPTSKYTGPIQYTIWKSIFQ 288
       241 AQLKLOVNDT-----LSRMAVKLETSEAVSLIELHTMCNVSKLYPEVKKMLRS 289
Qy      289 DHPVPAALTLDPGTAHQRLILSDCTTIVAYGNLHPLOLD-SPKRPDEVSVLQSEAFS 347
       290 --HOV--SVTLDPDTAHEHLILSEDRQVTRG--YTQENDPSSRRFTAFPCVLGCEGFT 343
Db      348 SGVHWYEVVAEKTQWVIGLAHEAASRKSIOIQPSRGFYCIWMDGNQYACTEPWTRL 407
       344 SGRRYFEVDVGEIGMDLGVCMENVOQKTMKQEPQSGFWTLRLCKKKGYVALTSPPTSL 403
Qy      408 NVBKLDRKGVPLDYDQGLIFYNADMSWLTYF-REKFPGLCSYF 453
       404 HLHEQPLLVGIFLDYEAGVVSFYNGNTGCHIFTFPKASFSDTLRPF 450

```

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RESULT 15
US-10-024-298A-99
/ Sequence 99, Application US/10024298A
/ Publication No. US20030143540A1
/ GENERAL INFORMATION:
/ APPLICANT: ASAH KASEI KABUSHIKI KAISHA
/ APPLICANT: AKIO MATSUDA
/ APPLICANT: GOICHI HONDA
/ APPLICANT: SHUJI MURAMATSU
/ APPLICANT: YUKIKO NAGANO
/ TITLE OF INVENTION: NF-K B Activating Gene
/ FILE REFERENCE: 1254-0191P
/ CURRENT APPLICATION NUMBER: US/10/024,298A
/ PRIOR FILING DATE: 2003-04-08
/ PRIOR APPLICATION NUMBER: 60/314,385
/ PRIOR FILING DATE: 2001-08-24
/ PRIOR APPLICATION NUMBER: 60/278,641
/ PRIOR FILING DATE: 2001-03-26
/ PRIOR APPLICATION NUMBER: 60/258,315
/ PRIOR FILING DATE: 2000-12-28
/ PRIOR APPLICATION NUMBER: JP254018/2001
/ PRIOR FILING DATE: 2001-08-24
/ PRIOR APPLICATION NUMBER: JP0088912/2001
/ PRIOR FILING DATE: 2001-03-26
/ PRIOR APPLICATION NUMBER: JP402288/2000
/ PRIOR FILING DATE: 2000-12-28
/ NUMBER OF SEQ ID NOS: 182
/ SOFTWARE: Patent In Ver. 2.0
/ SEQ ID NO 99
/ LENGTH: 465
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-024-298A-99

```

```

Query Match      19.5%; Score 489; DB 14; Length 465;
Best Local Similarity 29.3%; Pred. No. 8,7e-30;
Matches 137; Conservative 79; Mismatches 207; Indels 44; Gaps 11;

Qy      5 LKDELLCSICLSIYQDPVSLGCEHFCRCCTTEHWVROEAQARD---CEPCRTFAEP 60
       10 MMEBATSICLSLMTNPVINCISHYCHLCTIDFFKNPSQKQLQETPCPCQCAPFHM 69
Qy      61 ALAPSLKLANIVERYSPPDLAILNARRAAPCOAH-DKYKLPCLTRALICFFCDEPAL 119
       70 SLRPNKQGLSLIE-----ALKETDQEMSCHEHGFHLFCEDBQGLICWRCEAPQ 120
Qy      120 HEQHOVTGIDDAFDELQREIKDQLOALQDSEHTEALQLKROLAETKSTKSLRTTIG 179

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Db      121 HKGHTTALVEDVCOGYKEKLOKAVTKLOJEDRCTEOKLSTAMRITKMKKVOIOOROKIR 180
Qy      180 EAPERLHRLREROKAMLELEADTARTLT---DIEQKVORYSQOLR-----KVQEG 228
Db      181 SDPKNLOCFHBEBSKSYLWRLKEEQOTLSRLRDYEAGLGKSNELKSHILEBEKCGS 240
Qy      229 AOILOERLAETDRHTFLAGVASISERLKGKIHETNLTVEDPPTSKYTGPIQYTIWKSLPQ 288
Db      241 AQRLQNVNDT-----LSRSMAYKLETSEAVSLELHTMCMVSKLYFDVKMILRS 289
Qy      289 DIHPVPALTLDPGTNAHQRLIISDDCTIYAGNLHPQLOD-SPKRFDEVSIVLSEAFS 347
Db      290 --HOV--SYTLDBDTAHHHELILSEDRQYTRG--YTQENQDTSRRFTAFPCLGCEGFT 343
Qy      348 SGVHWVEVVAAKTKQVIGLAHEAASRKGSIOIQPSRGFYCIYMHGNOYSACTEPWTRL 407
Db      344 SGRRYFEVDVGEGTGMDLGVCMENVQGTGMKQEPQSGFWTLRLCKKKGYALTSPTSL 403
Qy      408 NVYDKLKDYGVLADYDQGLIFYNADMSMLYTF-REKFPGLCSYF 453
Db      404 HJHEQPLVIGIFLDYEAGVVSFYNGNTGCHITFPKASFSDTLRPYF 450
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Search completed: February 23, 2005, 09:59:10
Job time : 136 secs

QY 1782 TGGCAACCACTACAGCGCCTGCACGGAGCCCTGGACGCGCTTAACGTCGGGACAAGCT 1841

DB 15130 TGGGGAATAATGACGGCACCACACCTTTTAACTCCCTTGGACATCAAGGAAC 15189
QY 1842 TGACAGGTGGGTGTCTTCTGGAATATGACCAAGCTTGTCTCATCTTCTTACATGTGTA 1901
DB 15190 CAAGGGGTAGGCAATATCTTGAATGAGCCGGACACTGTCTTCTTCAATATGAC 15249
QY 1902 TGACATGCTCTGGCTTCACTCCCGGAGAAATTTCCCTGGCAAGCTGTCTTACTT 1961
DB 15250 AGACCGCTCTCATATCTTACACTTCACTGATCTTACTGAGAAACTTTGGCCCTCTT 15309
QY 1962 CAGCCCTGGC 1971
DB 15310 CTACCAGGC 15319

RESULT 2
US-09-949-016-2012
; Sequence 2012, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2012
; LENGTH: 2168
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2012

Query Match 3.5%; Score 132.4; DB 4; Length 2168;
Best Local Similarity 54.5%; Pred. No. 2.3e-21;
Matches 265; Conservative 0; Mismatches 221; Indels 0; Gaps 0;
QY 1486 GCCGCCCTTAACCTTGACCCGGGCAAGCCACAGCCCTGATCTCTGACGACTGC 1545
DB 1175 GCGGATGTGACCTTGACCTTGACAGACTCTCCCTGACACCAAGCGTTTC 1234
QY 1546 ACCATTGTGGCTTACGGGCACTTGAACCCACAGCCACTGACAGACTGCCAAAGCGCTTC 1605
DB 1235 AAGAGCGTCAAGTTGTGAGACAAAGACTCCGGGATCTCCCTGACACCAAGCGTTTC 1234
QY 1606 GATGTGAGAGTGTCCGTGCTGGTCTTGAAGCTTCACTAGTGGGCTCACTACTGGGAG 1665
DB 1295 ACCTTCAACCTTGGGTCTGCTGCTTCACTAGGTTTCACTAGGTTCACTACTGGGAG 1354
QY 1666 GTGTGTGGTGGGAGAAAGCCAGTGGGTGATCGGGCTGGACAAGAGCCGAGCGC 1725
DB 1335 GTGTGTGGTGGGAGAAAGCCAGTGGGTGATCGGGCTGGACAAGAGCGCGA 1414
QY 1726 AAGGACAGATTCAGATCCAGCCAGCGGGCTTCACTGATCGATGACGATGAC 1785
DB 1415 AAGGCGAGTGTGATCCACTCCCTGAGACTGGCTTCACTGGCGGGCTATGGAATGGG 1474
QY 1786 AACCAATGACAGCGCTGACGAGAGCCCTGACGCGGCTTAAAGTCCGGGCAAGCTTGA 1845
DB 1475 GACCAATATGACAGCACCACCACTTTTACCCCTTGGACATCAAGTGGAATCCAG 1534
QY 1846 AAGGTGGGTGTCTTCTGGAATATGACCAAGGCTTGTCTCATATGCTGATGAC 1905
DB 1535 CGGTAGGCAATATCTTGAATGAGCGCGGCACTGTCTTCTTCAATATGACAGAG 1594

QY 1906 ATGTCTGCTCTTACACCTTCCGGAGAGTTCCCTGGCAAGCTCTGCTTACTTAC 1965
DB 1595 CGCTCTCATATCTTACCTTCACTGATATCTTACTGAAACTTGTGGCCCTCTTAC 1654
QY 1966 CCTGGC 1971
DB 1655 CCAGGC 1660

RESULT 3
US-09-774-528-277
; Sequence 277, Application US/09774528
; Patent No. 6743619
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Zhou, Ping
; APPLICANT: Goodrich, Ryle
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Ren, Feiyan
; APPLICANT: Zhang, Jie
; APPLICANT: Zhao, Qing A.
; APPLICANT: Yang, Yonghong
; APPLICANT: Xue, Aidong J.
; APPLICANT: Wehrman, Tom
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6743619el Nucleic Acids and
; FILE REFERENCE: 802
; CURRENT APPLICATION NUMBER: US/09/774,528
; CURRENT FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 441
; SOFTWARE: pl_FL_genes Version 2.0
; SEQ ID NO 277
; LENGTH: 3038
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1557)
US-09-774-528-277

Query Match 3.5%; Score 132.4; DB 4; Length 3038;
Best Local Similarity 54.5%; Pred. No. 2.7e-21;
Matches 265; Conservative 0; Mismatches 221; Indels 0; Gaps 0;
QY 1486 GCCGCCCTTAACCTTGACCCGGGCAAGCCACAGCCCTGATCTCTGACGACTGC 1545
DB 1009 GCGGATGTGACCTTGACCTTGACAGACTCTCCCTGACACCAAGCGTTTC 1068
QY 1546 ACCATTGTGGCTTACGGGCACTTGAACCCACAGCCACTGACAGACTGCCAAAGCGCTTC 1605
DB 1069 AAGAGCGTCAAGTTGTGAGACAAAGACTCCGGGATCTCCCTGACACCAAGCGTTTC 1128
QY 1606 GATGTGAGAGTGTCCGTGCTGGTCTTGAAGCTTCACTAGTGGGCTCACTACTGGGAG 1665
DB 1129 ACCTTCAACCTTGGGTCTGCTGCTTCACTAGGTTTCACTAGGTTCACTACTGGGAG 1188
QY 1666 GTGTGTGGTGGGAGAAAGCCAGTGGGTGATCGGGCTGGACAAGAGCCGAGCGC 1725
DB 1189 GTGTGTGGTGGGAGAAAGCCAGTGGGTGATCGGGCTGGACAAGAGCGCGA 1248
QY 1726 AAGGCAAGATTCAGATCCAGCCAGCGGCTTCTTACTGATCGATGATGACGATGAC 1785
DB 1249 AAGGCGAGTGTGATCCACTCCCTGAGACTGGCTTCACTGGCGGGCTATGGAATGGG 1308
QY 1786 AACCAATGACAGCGCTGACGAGAGCCCTGACGCGGCTTAAAGTCCGGGCAAGCTTGA 1845
DB 1309 GACCAATATGACAGCACCACCACTTTTACCCCTTGGACATCAAGTGGAATCCAG 1368
QY 1846 AAGGTGGGTGTCTTCTGGAATATGACCAAGGCTTGTCTCATATGCTGATGAC 1905

Db 1369 CCGGTAGCATATTCCTAGCATATGAGCGCGACACTGCTTCTTACATGACACAGAC 1428
QY 1906 ATGTCTGGCTCTACACCTTCCGCGAGAAAGTTCCCTGGGACAGCTCTGCTTACTTCAGC 1965
Db 1429 CGCTTCATATCTACACCTTCACTGATCTTACTGAGAACTTGGCCCTCTCTAC 1488
QY 1966 CCGGC 1971
Db 1489 CCAAGC 1494

RESULT 4
US-08-724-394A-15
Sequence 15, Application US/08724394A
Patent No. 5872237
GENERAL INFORMATION:
APPLICANT: Feder, John N.
APPLICANT: Kronmal, Gregory S.
APPLICANT: Lauer, Peter M.
APPLICANT: Ruddy, David A.
APPLICANT: Thomas, Winston
APPLICANT: Teuchihaishi, Zenta
APPLICANT: Wolff, Roger K.
TITLE OF INVENTION: Megabase Transcript Map: No. 5872237e1
TITLE OF INVENTION: Sequences and Antibodies Thereeto
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Releasee #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/724,394A
FILING DATE: 01-OCT-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Fitch, Renee A.
REGISTRATION NUMBER: 35,136
REFERENCE/DOCKET NUMBER: 017957-000100
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-576-0200
TELEFAX: 415-576-0300
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 3416 base pairs
TYPE: nucleic acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..3416
OTHER INFORMATION: /note= "cDNA 44"
US-08-724-394A-15

Query Match 2.8%; Score 106; DB 2; Length 3416;
Best Local Similarity 53.8%; Pred. No. 5.6e-15;
Matches 242; Conservative 0; Mismatches 205; Indels 3; Gaps 1;

QY 1482 GCGAGCGCCCTAACCCTGAGACCGGACAGCCCAAGCGGCTATCTCTGCGAGCA 1541
Db 1373 GCGTGGAGTGTATCTGATCCAAAAAGCAAAACCCCATCTCTGTTCTAGGA 1432
QY 1542 CTGCACCATTTGCTTACGGCAACTTGACCCAGACCACTGCAAGACTCGCCAAAGC 1601

Db 1433 CAGAGAGATGTGACGCTGCCA---GGAGCCCCAGATCTGCCAGACCAACCTTGAGAG 1489
QY 1602 CTTCATATGAGAGTGTGGGTGCTGTAAGCTTCAGATGAGGCTCCACTACTG 1661
Db 1490 ATTATATGCAATTATTTGTTCTGGCTGTAGAGCTTCATATCAGGAGACATTACTG 1549
QY 1662 GGAGGTGTGTGGCGAGAAACCAGTGGTGTATCGGCTGTGCACAGAAACCGCAAG 1721
Db 1550 GAGGTGTGAGGTAGGAGACAGAAAGTGGCATATAGGGGTGTGACATAGATGTGCA 1609
QY 1722 CCGCAAGGCGACATTCAGATCCAGCCGCGCTTCTATCTGATCTGATGACGA 1781
Db 1610 GAGAAAGGCTGGGTCAAAATGACCTGAGATGATCTGAGCTATGGGCTGACTGA 1669
QY 1782 TGCAACAGTACAGGCTGTGACGAGCCCTGAGACCGGCTTAAGTCCGGGACAAAGT 1841
Db 1670 TGGGAATAGTATCGGACTCTTAACTGAGCCGAGAACCACTTGAACTTAAAGCCCC 1729
QY 1842 TGCAAGTGTGTGCTTCTGACTATGACCAAGCTTCTCATCTTCAATGCTGA 1901
Db 1730 TAAAGAAAGTGGGCTTCTGACTATGAGACTGAGATATCTCATTTCAATGCTGT 1789
QY 1902 TGACATGCTGCTCTTACACCTTCGCGA 1931
Db 1790 GGATGATCGCATATTCATCTTCTCTGGA 1819

RESULT 5
US-09-799-451-948
Sequence 948, Application US/09799451
Patent No. 6783969
GENERAL INFORMATION:
APPLICANT: Tang, Y. Tom
APPLICANT: Zhou, Ping
APPLICANT: Goodrich, Ryle
APPLICANT: Asundi, Vinod
APPLICANT: Ren, Feiyan
APPLICANT: Zhang, Jie
APPLICANT: Xue, Aidong J.
APPLICANT: Zhao, Qing A.
APPLICANT: Wang, Jian-Rui
APPLICANT: Ma, Yungting
APPLICANT: Yamazaki, YVictoria
APPLICANT: Chen, Rui-hong
APPLICANT: Wang, Zhiwei
APPLICANT: Wang, Dunrui
APPLICANT: Yang, Yonghong
APPLICANT: Wehrman, Tom
APPLICANT: Ghosh, Reena
APPLICANT: Drmanac, Radoje T.
TITLE OF INVENTION: No. 6783969e1 Nucleic Acids and
TITLE OF INVENTION: Polypeptides
FILE REFERENCE: 803
CURRENT APPLICATION NUMBER: US/09/799,451
CURRENT FILING DATE: 2001-03-05
NUMBER OF SEQ ID NOS: 948
SOFTWARE: PC_FL_genes Version 2.0
SEQ ID NO 948
LENGTH: 1854
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (175) .. (1083)
US-09-799-451-948

Query Match 2.8%; Score 105.8; DB 4; Length 1854;
Best Local Similarity 47.6%; Pred. No. 4.7e-15;
Matches 444; Conservative 0; Mismatches 477; Indels 12; Gaps 4;

QY 1007 TGCAGAGGAGCTGAAGACCAACTTCAAGCCCTTCAAGACGCGGAGCAACACCG 1066
Db 101 TGAAGAGGACTGGAAGACTGATGAGGTTCGCGTCCAGGAAAGAGAGAGCAAG 160

[illegible]

```

; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5101
; LENGTH: 1704
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-5101

```

[illegible]

Query Match	2.5%	Score 95.8;	DB 4;	Length 1782;
Best Local Similarity	52.6%	Pred. No. 1,1e-12;		
Matches 233; Conservative	0;	Mismatches 207;	Indels 3;	Gaps 1

Query Match	2.5%	Score 95.8;	DB 4;	Length 1799;
Best Local Similarity	52.6%	Pred. No. 1,1e-12;		
Matches 233;	Conservative 0;	Mismatches 207;	Indels 3;	Gaps 1

Qy	1484	TAGCGGCCCTTAACCTGTGACCCCGGGCA	CAGGCCAC	CAGCGCTGATTCCTGTGGACGA	CT	154
Db	1195	CAGTGGAGCTA	CTCTGGACCCAGACAGGGCTTA	CCCAAGCTGATTCCTCTGTGATTA	TC	125
Qy	1544	GCACCATTTGTGGCTTA	CGGCACTTGACCCACAGCCACTG	CAGACTTCGCGCAAGCGT		160
Db	1255	TGCGGCAAGTCGGTACAGTTAC	--CTCCAA	CAGACCTTGCTTACAA	CCCCGAGAGT	131
Qy	1604	TCGATGTGGAGAGTGTGGGTGCTGGGATT	TGAAAGCCTTCAGTAGTGAGCGCTCA	CTACTGCG		166
Db	1312	TCGAATCTGTATCCCTGTGTCTTTGGGCTCT	CTCATGTCTTATGCGCCCGGAGACATTA	TTATGGG		137

Db 1116 yyy 1175
Qy 333 TCACAGCCTCTCCAGCCGCGCTTGGAGTCCGACCTCTAGACTGCGCCCTCC 392
Db 1176 yyy 1235
Qy 393 CGAGGTGGGCTCCAGAGTCTCAGCCGCGGACCTCTGCGCTTACCTCTCCG 452
Db 1236 yyy 1295
Qy 453 GAAGACCCCTCCCTCTCTCCGAGCTCTACCCCTGCTGGGCGCTCTGTCGCG 512
Db 1296 yyy 1355
Qy 513 CGCCGAGCCTCTGCTGCTCTCCGACGCGCGGCTCTCTAGCCGCGCCCTGCGCC 572
Db 1356 yyy 1415
Qy 573 TCGGGCCGCTCTGCTGCTGCGCC 596
Db 1416 yyyyyyyyyyyyyyyyyyygTACC 1439

RESULT 11
US-09-949-016-1114
Sequence 1114, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1114
LENGTH: 1496
TYPE: DNA
ORGANISM: Human
US-09-949-016-1114

Query Match 2.4%; Score 93.2; DB 4; Length 1496;
Best Local Similarity 50.2%; Pred. No. 4.3e-12;
Matches 258; Conservative 0; Mismatches 253; Indels 3; Gaps 1;
Qy 1481 TCCAGCCGCTTACCTCTGAGCCGCGGACAGCCGCGCTGATCTGTGCGAGG 1540
Db 577 TCCAGGTGATATGACTTGTGATGCGACAGCCCAACTCTCTCATTTTGTGAGG 636
Qy 1541 ACTGACCAATTGCTTACGCGCACTTGACCCAGCCACTGAGAGTGGCCAAAGC 1600
Db 637 ACCTCAGAGCGTCCGAGGCGGTGAT--CACACAGATCGGCAAGACTTGGAG 693
Qy 1601 GCTTGATGTGAGGTGCGGTGCTGAGTCTGAACTTCACTAGTGTGCTCACTACT 1660
Db 694 GATTATACGTCATTTGCTGCTTCTGCTGCTTACCTGTGGCGGCTCACTACT 753
Qy 1661 GGGAGGTGATGTCGCGGAGAGACCAAGTGTGATCGGCTGAGACAGAAAGCGCAA 1720
Db 754 GGGAGGTGATGTCGCGGAGAGACAGAAATGGAAGTCTGGAGTCTGACAGAAATCTGTC 813
Qy 1721 GCGGCAAGGACATTCAGATTCAGCCGCGGCTTCTTACTGATCTGTGATGACG 1780
Db 814 ACCGCAAGGAGATTCATCTGACCAAGAGCGGTGATTTCTGACTGTGATTTGAGGG 873

Qy 1781 ATGGACACAGTATACGCGCTTCCAGAGCCCTGAGCGGCTTACGTCGCGGACAAAGC 1840
Db 874 ATGGAAGCGGCTCTCTGTCAGACAGCGTGGCGCTGACTTCTCTGTAAGCCGCAAT 933
Qy 1841 TTGACAGGTGGTGTCTTCTGAGTATGACCAAGCTTGTCTCATCTTCTACATGTCTG 1900
Db 934 TACAGAGTGGGAGATTTTCTGATATGGGATGACAGAACCTTTCTTTTGTGATGCTG 993
Qy 1901 ATGACATGCTGGCTTACACCTTCCGAGAGATTCCTGGCAAGCTCTGCTTACT 1960
Db 994 AAGGTGTTCCATGCTATATATTCAGAGTGTCTCTGCTAGAGGACCACTGCACTGT 1053
Qy 1961 TCAGCCCTGCGCAGACCGCAATGAGCAAGAA 1994
Db 1054 TTTTGTCTCTCCAGTCCACTTAATGATGATTA 1087

RESULT 12
US-09-949-016-3109
Sequence 3109, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3109
LENGTH: 1496
TYPE: DNA
ORGANISM: Human
US-09-949-016-3109

Query Match 2.4%; Score 92; DB 4; Length 1496;
Best Local Similarity 50.4%; Pred. No. 8.3e-12;
Matches 252; Conservative 0; Mismatches 245; Indels 3; Gaps 1;
Qy 1495 ACCCTGAGCCGCGGACAGCCGCGCTGATCTGTGAGCACTGACCAATTGTG 1554
Db 591 ACCTTGATGCGGACAGCAAGCAACTCTCTCATTTTGTGAGCACTCAGAGCGTC 650
Qy 1555 GCTTACGCAATTGACCCCAAGCCACTGAGAGTGGCCAAAGCGCTTGCATGTGAG 1614
Db 651 CGAAGGTGTGAT--CACACAGATCGGCAAGACTTGGAGATTTGACGTGTCC 707
Qy 1615 GTGTGCTGCTGAGTCTGAACTTCACTAGTATGCGTCACTTCTGAGGAGTGTG 1674
Db 708 ATTGCTATCTGAGCTCCCTGCTTACCTGTGCGCCCACTTCTGAGAGTGTGAG 767
Qy 1675 GCGGAGAGACCAAGTGTGATCGGCTGAGACAGAAAGCGCAAGCGGCAAGGCGAC 1734
Db 768 GGAAACAGACAGAAATGGGACCTGGGAGTCTGAGAAATCTGTTCACCGCAAGGAG 827
Qy 1735 ATTCAGATTCAGCCGCGGCTTCTACTGATCTGTGATGACAGATGCAACAGTAC 1794
Db 828 ATTCATCTGACCAAGAGGTGATTTGAGCTGTGATTTGAGGATGGAAGCGGCTTC 887
Qy 1795 AGCGCTGAGAGGCGCTTACGCGGCTTACCTGCGGAGCAAGCTTGAAGGTGGT 1854
Db 888 TCTGCGAGACAGTGTGCTGCTTCTCTTCTGTAAGCCGCAAGTTCAGAGAGTGGG 947
Qy 1855 GTTCTCTGAGTATGACCAAGCTTGTCTCATCTTCTACATCTGTGATGACATGTCCTG 1914
Db 948 ATTTTCTGATATGAGGCAATGCAAGAGTTTCTTTTGTGATGTAAGGTGCTTCAT 1007


```

/ GENERAL INFORMATION:
/ APPLICANT: Tang, Y. Tom
/ APPLICANT: Zhou, Ping
/ APPLICANT: Goodrich, Kyle
/ APPLICANT: Liu, Chenghua
/ APPLICANT: Asundi, Vinod
/ APPLICANT: Ren, Feiyan
/ APPLICANT: Zhang, Jie
/ APPLICANT: Zhao, Qing A.
/ APPLICANT: Yang, Yonghong
/ APPLICANT: Xue, Aidong J.
/ APPLICANT: Wehrman, Tom
/ APPLICANT: Wang, Jian-Rui
/ APPLICANT: Wang, Dunrui
/ APPLICANT: Drenth, Radoje T.
/ TITLE OF INVENTION: No. 6743619e1 Nucleic Acids and
/ TITLE OF INVENTION: Polypeptides
/ FILE REFERENCE: 802
/ CURRENT APPLICATION NUMBER: US/09/774,528
/ NUMBER OF SEQ ID NOS: 441
/ SOFTWARE: pc_fl_genes Version 2.0
/ SEQ ID NO 396
/ LENGTH: 2889
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (319) .. (2889)
US-09-774-528-396

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 Job time : 599 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: February 21, 2005, 17:04:36 ; Search time 1989 Seconds
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Title: US-09-927-091-3

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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 5384158 seqs, 2955248155 residues

Total number of hits satisfying chosen parameters: 10768316

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

Database : Published Applications NA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	2308.6	60.3	30676	9	US-09-927-091-8
4	2325.8	58.9	30625	9	US-09-927-091-5
5	995.8	26.0	45845	9	US-09-927-091-6
6	838.6	21.9	49744	9	US-09-927-091-4
7	609.6	15.9	610	13	US-10-027-632-100265
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12	136.4	3.6	1394	9	US-09-764-868-418	Sequence 418, App
13	132.4	3.5	3038	17	US-10-120-988-277	Sequence 277, App
14	122.8	3.2	1904	17	US-10-104-047-103	Sequence 103, App
15	122	3.2	1739	9	US-09-731-872-225	Sequence 225, App
16	122	3.2	1739	10	US-09-876-997-225	Sequence 225, App
17	122	3.2	12733	14	US-10-033-393-47	Sequence 47, App
18	122	3.2	12739	14	US-10-033-393-8	Sequence 8, App
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22	119.2	3.1	3479	14	US-10-121-049-123	Sequence 123, App
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45	119.2	3.1	3479	14	US-10-123-903-123	Sequence 123, App

ALIGNMENTS

RESULT 1
US-09-927-091-3
Sequence 3, Application US/09927091
Patent No. US20020119541A1
GENERAL INFORMATION:
APPLICANT: KILLARY, ANN
APPLICANT: LOTT, STEVE
APPLICANT: CHANDLER, DAWN
TITLE OF INVENTION: THE TUMOR SUPPRESSOR CAR-1
FILE REFERENCE: UTSC:651US
CURRENT APPLICATION NUMBER: US/09/927,091
CURRENT FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 60/227,560
PRIOR FILING DATE: 2000-08-23
PRIOR APPLICATION NUMBER: 60/225,033
PRIOR FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 3826
TYPE: DNA
ORGANISM: Human
US-09-927-091-3

Query Match 100.0%; Score 3826; DB 9; Length 3826;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3826; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Dd	3781	TGTATTAATTAAGTTACAGATGTCAAAAAAAAAAAAAAAAAAAAAA	3826

RESULT 2
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; Patent No. US20020119541A1
; GENERAL INFORMATION:
; APPLICANT: KILLARY, ANN
; APPLICANT: LOTT, STEVE
; APPLICANT: CHANDLER, DAWN
; TITLE OF INVENTION: THE TUMOR SUPPRESSOR CAR-1
; FILE REFERENCE: UMSC.651US
; CURRENT APPLICATION NUMBER: US/09/927,091
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/227,560
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 60/225,033
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 23433
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (5071)..(23433)
; OTHER INFORMATION: n = A or C or G or T/U

US-09-927-091-7

Query Match 60.7%; Score 2322.2; DB 9; Length 23433;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 2350; Conservative 0; Mismatches 28; Indels 1; Gaps 1;

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Dd	12480	GGTCACAGCCTTCTCCCACATCATCTTCTCTCCCTCTCCAACCCCAAGTCCAGCC	12533
Oy	1489	GGCCCTAACCTCGACCCGGGACACGCCACAGCGCTGATCTCTGTGGAGAGCATGCAACC	1548
Dd	12540	GCCTTAACCTCGACCCGGGACACGCCACAGCGCTGATCTCTGTGGAGAGCATGCAACC	12559
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Qy 1669 GTGAGTGGGAGAAAGACCAAGTGGGTGATGAGGCTGGGACACAGAGCCGGAACCCGACAG 1728
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[illegible]

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; Sequence 8, Application US/09927091
; Patent No. US20020119541A1
; GENERAL INFORMATION:
; APPLICANT: KILLARY, ANN
; APPLICANT: LOTT, STEVE
; APPLICANT: CHANDLER, DANN
; TITLE OF INVENTION: THE TUMOR SUPPRESSOR
; FILE REFERENCE: UTSC:651US
; CURRENT APPLICATION NUMBER: US/09/927,091
; CURRENT FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/227, 560
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 60/225,033
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 3067d
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (667)..(730676)
; OTHER INFORMATION: n = A or C or G or T/
US-09-927-091-8

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Query Match	60.3%	Score 2308.6	DB 9	Length 30676
Best Local Similarity	98.7%	Pred. No. 0		
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				Gaps 2

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OY	1669	GTGTGTGCGGAGAAAGACCCCATGTGGTGTATGTGGCTGTGCACACGAACCCGCAAGCCGCAAG	1728
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OY	1729	GGCAGCATCCAGATCCAGCCACGCGCGGCTTCTACTGCATCTGTATGACAGATGGCAAC	1788
Db	23670	GGCAGCATCCAGATCCAGCCACGCGCGGCTTCTACTGCATCTGTATGACAGATGGCAAC	23729
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US-09-927-091-5
; Sequence 5, Application US/09927091
; Patent No. US20020119541A1
; GENERAL INFORMATION:
; APPLICANT: KILLARY, ANN
; APPLICANT: LOTT, STEVE
; APPLICANT: CHANDLER, DAWN
; TITLE OF INVENTION: THE TUMOR SUPPRESSOR CAR-1
; FILE REFERENCE: UMSC:651US
; CURRENT APPLICATION NUMBER: US/09/927, 091
; PRIOR APPLICATION NUMBER: 60/227,560
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 60/225,033
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 30625
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TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (4754)..(30625)
; OTHER INFORMATION: n = A or C or G or T/U
US-09-927-091-5

Query Match 58.9%; Score 2252.8; DB 9; Length 30625;
Best Local Similarity 97.5%; Pred. No. 0; Mismatches 57; Indels 3; Gaps 3;
Matches 2320; Conservative 0;

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 Qy 2809 AAGTCTCAGCAACCTCTTCCAGGAGGCTGTGATACCTGTGAGGAGGAGGAGGAGGCT 2868
 Db 23284 AAGTCTCAGCAACCTCTTCCAGGAGGCTGTGATACCTGTGAGGAGGAGGAGGCT 23343
 Qy 2869 CAGAAAGCACTGTTGATATGAGACCCCAAGCACT-GGAGAGGAGGCTGTGAGAGCCCT 2927
 Db 23344 CAGAAAGCACTGTTGATATGAGACCCCAAGCACTGAGGAGGAGGCTGTGAGAGCCCT 23403
 Qy 2928 TGTCAAGCTTGGGATCTATCTCAGTTAGATCTCTGCTGCAAGAAACAGAGCCATTTGA 2987
 Db 23404 TGTCAAGCTTGGGATCTATCTCAGTTAGATCTCTGCTGCAAGAAACAGAGCCATTTGA 23463
 Qy 2988 GGTGGTTAATAGACAGAGATTTACTACTGAGGAGGAGGAGGAGGAGGAGGAGGAGG 3047
 Db 23464 GGTGGTTAATAGACAGAGATTTACTACTGAGGAGGAGGAGGAGGAGGAGGAGGAGG 23523
 Qy 3048 AAGAGCTGAGAAAGCACTCTGCTGAATTTCCAGAACTCCAGGAGGAGGAGGAGGAGG 3107
 Db 23524 AAGAGCTGAGAAAGCACTCTGCTGAATTTCCAGAACTCCAGGAGGAGGAGGAGGAGG 23583
 Qy 3108 TCTGTTGTATCCAGAAAGCTGCTCCCATCTGCAAGAGGAGGAGGAGGAGGAGGAGG 3167
 Db 23584 TCTGTTGTATCCAGAAAGCTGCTCCCATCTGCAAGAGGAGGAGGAGGAGGAGGAGG 23643
 Qy 3168 GACTGAGAAAGTGGGCTCTGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 3227
 Db 23644 GACTGAGAAAGTGGGCTCTGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 23703
 Qy 3228 TGCCCTCTCCCACTTCACTCAGTTCCCAATCTAATTTTTCAGAGAGTTCTGTTGG 3287
 Db 23704 TGCCCTCTCCCACTTCACTCAGTTCCCAATCTAATTTTTCAGAGAGTTCTGTTGG 23763
 Qy 3288 GGGAACTTAATGATGATCCAGAACTTGGCTGCAAGGAGGAGGAGGAGGAGGAGGAGG 3347
 Db 23764 GGGAACTTAATGATGATCCAGAACTTGGCTGCAAGGAGGAGGAGGAGGAGGAGGAGG 23823
 Qy 3348 TGAAGAAGTATGAGGTTGGTGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 3407
 Db 23824 TGAAGAAGTATGAGGTTGGTGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 23883
 Qy 3408 ATCTGTAAGAACTCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 3467

Db 23884 ATCTGTAAGAACTCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 23943
 Qy 3468 TATCCCTGCGCCAGAGGTGGGAACTGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 3527
 Db 23944 TATCCCTGCGCCAGAGGTGGGAACTGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 24003
 Qy 3528 CCGGCTTGAATCTTCTTCTTCTGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 3587
 Db 24004 CCGGCTTGAATCTTCTTCTTCTGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 24063
 Qy 3588 ACAACACACATCCCAAGTATGAGCCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 3647
 Db 24064 ACAACACACATCCCAAGTATGAGCCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 24123
 Qy 3648 CCGGCTTGAATCTTCTTCTTCTGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 3707
 Db 24124 CCGGCTTGAATCTTCTTCTTCTGATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 24183
 Qy 3708 ACTACAGATCTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 3767
 Db 24184 ACTACAGATCTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 24243
 Qy 3768 GTTATGATCAATTTGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 3807
 Db 24244 GTTATGATCAATTTGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 24283
 RESULT 5
 US-09-927-091-6
 ; Sequence 6, Application US/09927091
 ; Patent No. US20020119541A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KILLARY, ANN
 ; APPLICANT: LOTT, STEVE
 ; APPLICANT: CHANDLER, DAMN
 ; TITLE OF INVENTION: THE TUMOR SUPPRESSOR CAR-1
 ; FILE REFERENCE: UTSC:651US
 ; CURRENT APPLICATION NUMBER: US/09/927,091
 ; PRIOR FILING DATE: 2001-08-09
 ; PRIOR APPLICATION NUMBER: 60/227,560
 ; PRIOR FILING DATE: 2000-08-23
 ; PRIOR APPLICATION NUMBER: 60/225,033
 ; PRIOR FILING DATE: 2000-08-10
 ; NUMBER OF SEQ ID NOS: 9
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 6
 ; LENGTH: 45845
 ; TYPE: DNA
 ; ORGANISM: Human
 US-09-927-091-6
 Query Match 26.0%; Score 995.8; DB 9; Length 45845;
 Best Local Similarity 99.7%; Pred. No. 3.6e-262;
 Matches 1008; Conservative 0; Mismatches 2; Indels 1; Gaps 1;
 Qy 1 AAGCTGCGGTGAGACCGAAGCGGTGCTGCTAGAGCTGCGGGGGTAAAGGGGTGCGGCTGGG 60
 Db 24164 AAGCTGCGGTGAGACCGAAGCGGTGCTGCTAGAGCTGCGGGGGTAAAGGGGTGCGGCTGGG 24223
 Qy 61 CAGAGGTTTGGGAGCGGAGTCCGAGAGTGAAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 120
 Db 24224 CAGAGGTTTGGGAGCGGAGTCCGAGAGTGAAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 24283
 Qy 121 GGTCAAGCAATGTAAGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGG 180
 Db 24284 GGTCAAGCAATGTAAGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGG 24343
 Qy 181 GCTTCTGCGGCTTCCCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 240
 Db 24344 GCTTCTGCGGCTTCCCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 24403
 Qy 241 CCGGCTCCGGAGTCCCTTCTCCAGCTCTATCCCTTAAGAGCTGCGGCGGCGGCGGCTTGA 300

Db 24404 CCCGCTCCGGAGATCCCTTCTCCAGCTCTATCCCTTAGAGTGGCCGCCCTTAGAA 24463
Qy 301 CTTCCCGTGAAGATCTCCCTCCCTCAGCCGCTCAAGCTCTCTCCCAAGGCCATGCCC 360
Db 24464 CTTCCCGTGAAGATCTCCCTCCCTCAGCCGCTCAAGCTCTCTCCCAAGGCCATGCCC 24523
Qy 361 TTGAGTGGCCCACTACTCTAGACTGCCCCCTCCGGGCTGGCGTCCCAAGAGTCTAGGC 420
Db 24524 TTGAGTGGCCCACTACTCTAGACTGCCCCCTCCGGGCTGGCGTCCCAAGAGTCTAGGC 24583
Qy 421 GCGCAGCCCTTCTCTCGGCTTAACTCTCTCTCCCTCCGAGACAGACCCCTCTCTCCGAGTAC 480
Db 24584 GCGCAGCCCTTCTCTCGGCTTAACTCTCTCTCCCTCCGAGACAGACCCCTCTCTCCGAGTAC 24643
Qy 481 TCCCTACCCCTGCTGAGCGGGCTGATCCCGGCGCCAGCCCTCGGCTGCTGCTCCGAGA 540
Db 24644 TCCCTACCCCTGCTGAGCGGGCTGATCCCGGCGCCAGCCCTCGGCTGCTGCTCCGAGA 24703
Qy 541 GCGCGCGCTCTCTAGCGGCCCTTGCCCTCCGAGCCCTCTCTCTGCTGCTGCTGCG 600
Db 24704 GCGCGCGCTCTCTAGCGGCCCTTGCCCTCCGAGCCCTCTCTCTGCTGCTGCTGCG 24762
Qy 601 GCCATGGCGTGAAGCTCTCAAGACAGAGCTGCTGCTGCTCAATGCTGAGCATTAACAG 660
Db 24763 GCCATGGCGTGAAGCTCTCAAGACAGAGCTGCTGCTGCTCAATGCTGAGCATTAACAG 24822
Qy 661 GACCCGCTGAGCTGAGGCTGAGCGAGCACTTCTGCGCGCGCTGATCAAGAGCACTGAG 720
Db 24823 GACCCGCTGAGCTGAGGCTGAGCGAGCACTTCTGCGCGCGCTGATCAAGAGCACTGAG 24882
Qy 721 GTGCGGAGAGAGCGAGGCGCGCGCGAGCTGCGCGAGTGCCTGCGAGCGAGCTGCGAG 780
Db 24883 GTGCGGAGAGAGCGAGGCGCGCGCGAGCTGCGCGAGTGCCTGCGAGCGAGCTGCGAG 24942
Qy 781 CCGCGCTGAGCGCGAGCTCAAGCTGAGCAATGCTGAGAGCTGAGAGCTCTTCCG 840
Db 24943 CCGCGCTGAGCGCGAGCTCAAGCTGAGCAATGCTGAGAGCTGAGAGCTCTTCCG 25002
Qy 841 CTGAGAGCCATCTCAAGCGCGCGCGCGCGAGCACTGCGAGCGCGCAAGAGTGC 900
Db 25003 CTGAGAGCCATCTCAAGCGCGCGCGCGCGAGCACTGCGAGCGCGCAAGAGTGC 25062
Qy 901 AAGCTCTTCTGCTCAAGAGCGCGCGCTTCTCTGCTTCTGAGAGCTGAGCTGAG 960
Db 25063 AAGCTCTTCTGCTCAAGAGCGCGCGCTTCTCTGCTTCTGAGAGCTGAGCTGAG 25122
Qy 961 CACGAGCAGCATCAGGTCAACGCGGATCGAGCAGCGCTTCAAGAGCTGAG 1011
Db 25123 CACGAGCAGCATCAGGTCAACGCGGATCGAGCAGCGCTTCAAGAGCTGAG 25173

RESULT 6
US-09-927-091-4
; Sequence 4, Application US/09927091
; Patent No. US20020119541A1
; GENERAL INFORMATION:
; APPLICANT: KILLARY, ANN
; APPLICANT: LOTT, STEVE
; APPLICANT: CHANDLER, DAWN
; TITLE OF INVENTION: THE TUMOR SUPPRESSOR CAR-1
; CURRENT FILING DATE: US/09/927,091
; CURRENT FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/227,560
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: 60/225,033
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 49744
; TYPE: DNA
; ORGANISM: Human

US-09-927-091-4
Query Match 21.9%; Score 838.6; DB 9; Length 49744;
Best Local Similarity 93.5%; Pred. No. 6,6e-219;
Matches 951; Conservative 0; Mismatches 59; Indels 7; Gaps 7;
Qy 1 AAGCTGCGCTGAGACCGAAGCGGTGCTCTAAAGCTGCGGGGTTAAGGGTGGCTGG 60
Db 34306 AAGCTGCGCTGAGACCGAAGCGGTGCTCTAAAGCTGCGGGGTTAAGGGTGGCTGG 34365
Qy 61 CCAGGGTTTGGGGCGCGGAGTCCGAGAGTGAAGCGGGCGGAGCCCTCTCTTCTGAGC 120
Db 34366 CCA-GGTTTGGGGCGCGGAGTCCGAGAGTGAAGCGGGCGGAGCCCTCTCTTCTGAGC 34424
Qy 121 GGTCAAGCCAAATGATGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAG 180
Db 34425 GGTCAAGCCAAATGATGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAG 34484
Qy 181 GCTTCTGCGCTCCCGGAGCGCGCCCAAGCCCGGAGTTTGAAGCCCTTAAAGGCTGAG 240
Db 34485 GCTTCTGCGCTCCCGGAGCGCGCCCAAGCCCGGAGTTTGAAGCCCTTAAAGGCTGAG 34544
Qy 241 CCGGCTCCGGAGTCCCTTCTCCAGCTCTATCCCTTAAAGTGAAGTGAAGTGAAGTGAAG 300
Db 34545 CCGGCTCCGGAGTCCCTTCTCCAGCTCTATCCCTTAAAGTGAAGTGAAGTGAAGTGAAG 34604
Qy 301 CTTCCCG-GTCAAGATCTCGCTC-CTTCAAGCTCTCA-GCCTCTCCAGCGCCATC 357
Db 34605 CTTCCCGAGTGAAGATCTCCCTCTCTCAAGCTCTCAAGCTCTCTTCCAGCGCCATTC 34664
Qy 358 GGC-TTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 415
Db 34665 GCTTTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 34724
Qy 416 CAGCGCGAGCCCTTCTCGGCTTAAAGCTCTTCCGAGAGCAAGCCCTCTCTCTCG 475
Db 34725 CAGCGCGAGCCCTTCTCGGCTTAAAGCTCTTCCGAGAGCAAGCCCTCTCTCTCG 34784
Qy 476 GTACTCTTAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 535
Db 34785 GTACTCTTAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 34844
Qy 536 CGAAGCGCGAGC-GCTCTCTCAAGCGCGCCCTGAGCCCTGAGGAGCCCTCTCTGAGTGC 594
Db 34845 CGAAGCGCGAGCCTTATTAAGCGCGCCCTGAGCCCTGAGGAGCCCTCTCTGAGTGC 34904
Qy 595 CTGCGCCATGAGGCTGAGCTTCAAGAGAGAGCTGCTGCTCAATGCTGAGTGC 654
Db 34905 CTGCGCCATGAGGCTGAGCTTCAAGAGAGAGCTGCTGCTCAATGCTGAGTGC 34964
Qy 655 TACCAAGAGCCCGTGAAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAG 714
Db 34965 TACCAAGAGCCCGTGAAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAG 35024
Qy 715 CACTGAGTGGAG 774
Db 35025 CACTGAGTGGAG 35084
Qy 775 GCGAGCGCGCGCTGAGCGCCCTCAAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 834
Db 35085 GCGAGCGCGCGCTGAGCGCCCTCAAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 35144
Qy 835 TTCCCGTGAAGCGCATCTCAAG 894
Db 35145 TTCCCGTGAAGCGCATCTCAAG 35204
Qy 895 AAGTCAAGCTCTTCTGCTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 954
Db 35205 AAGTCAAGCTCTTCTGCTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 35264
Qy 955 GCACTGAGAGAGAGAGATGAGTCAAGCGCATGAGAGAGAGAGAGAGAGAGAGAGAGAG 1011
Db 35265 GCACTGAGAGAGAGATGAGTCAAGCGCATGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 35321

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RESULT 7
US-10-027-632-100265/c
: Sequence 100265, Application US/10027632
: Publication No. US20020198372A1
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
: TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIORITY APPLICATION NUMBER: US 60/218,006
PRIORITY FILING DATE: 2000-07-12
PRIORITY APPLICATION NUMBER: US 60/198,676
PRIORITY FILING DATE: 2000-04-20
PRIORITY APPLICATION NUMBER: US 60/193,483
PRIORITY FILING DATE: 2000-03-29
PRIORITY APPLICATION NUMBER: US 60/185,218
PRIORITY FILING DATE: 2000-02-24
PRIORITY APPLICATION NUMBER: US 60/167,363
PRIORITY FILING DATE: 1999-11-23
PRIORITY APPLICATION NUMBER: US 60/156,358
PRIORITY FILING DATE: 1999-09-28
PRIORITY APPLICATION NUMBER: US 60/146,002
PRIORITY FILING DATE: 1999-08-09
NUMBER OF SEQ_ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ_ID NO 100265
LENGTH: 610
TYPE: DNA
ORGANISM: Human
US-10-027-632-100265

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Query Match	15.9%	Score 609.6	DB 13	Length 610
Best Local Similarity	99.8%	Pred. No. 8.9e-157		
Matches 609	Conservative 1	Mismatches 0	Indels 0	Gaps 0
QY	2345	CCAGTGTCTCCTCCAGGCCCAAGCCCTGACCTCAGGAAGTGTCAAGCATGGCCAGTACTT	2404	
Db	610	CCAGTGTCTCCTCCAGGCCCAAGCCCTGACCTCAGGAAGTGTCAAGCATGGCCAGTACTT	551	
QY	2405	GGCAGCCCGAAGACACACAGACAGCCCTCTTATGTCTCCATGGCCTTAAGCTTAACCCCTGAC	2466	
Db	550	GGCAGCCCGAAGACACACAGACAGCCCTCTTATGTCTCCATGGCCTTAAGCTTAACCCCTGAC	491	
QY	2465	CAAGCTAGTAGTGGGCACTTATACCTTGACCCCAAGTCCACAGTGGTGCACAGTAGTACTCT	2522	
Db	490	CAAGCTAGTAGTGGGCACTTATACCTTGACCCCAAGTCCACAGTGGTGCACAGTAGTACTCT	431	
QY	2525	GGTCTTAGGGTGTGCTGTGAGCCAACTCTCTCTGCAACCCCAACCAAGAACTTATATGG	2584	
Db	430	GGTCTTAGGGTGTGCTGTGAGCCAACTCTCTCTGCAACCCCAACCAAGAACTTATATGG	371	
QY	2585	TTCTCACTCTCCCACTGATCTGCTGCGTCAGTGTGATGTGATGCTGTGGCCGTGTGAAGGCACC	2644	
Db	370	TTCTCACTCTCCCACTGATCTGCTGCGTCAGTGTGATGTGATGCTGTGGCCGTGTGAAGGCACC	311	
QY	2645	TGCTAGTGTAGTCCACACATTATATGTCATGTGCCACACCTTCTCTGCCCAAGGCCGAGG	2704	
Db	310	TGCTAGTGTAGTCCACACATTATATGTCATGTGCCACACCTTCTCTGCCCAAGGCCGAGG	251	
QY	2705	GACAGGGTGAAGGTTATACCCAAAGCTGATGCGAGAGCCCATTAAGCTTAAGCAACTGAG	2766	
Db	250	GACAGGGTGAAGGTTATACCCAAAGCTGATGCGAGAGCCCATTAAGCTTAAGCAACTGAG	191	
QY	2765	GACAAAGCTCCTCGATGATCGAGGTGCCCAAGTAGCTGTGAACAAGATCCAGCCCAACC	2822	
Db	190	GACAAAGCTCCTCGATGATCGAGGTGCCCAAGTAGCTGTGAACAAGATCCAGCCCAACC	131	
QY	2825	TCTTCAGCCAGGCTCTGTGACTGTCTAGGGTGCAGAGGCTTCCAGAAAGCATTTTGT	2886	

Db	130	TCTTCAGCCAGGCGCTGTGTGACCTGTGTAAGGTACAGAGGCTCCAGAGCAGATTGTGT	71
Qy	2885	AATTAGAGCCCAAGCACTGGGAGGGGCTGTGTGCTTAGACCCCTGTGCACACTTGGCATCT	29
Db	70	AATTAGAGCCCAAGCACTGGGAGGGGCTGTGTGCTTGTGACCCCTGTGCACACTTGGCATCT	11
Qy	2945	ATTCTCAGTTA	2954
Db	10	ATTCTCAGTTA	1

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RESULT 8
US-10-027-632-100265/c
; Sequence 100265, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Manq, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/199,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 100265

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TYPE: DNA	15.9%	Score 609.6;	DB 17;	Length 610;
ORGANISM: Human		Pred. No. 8.9e-157;		
US-10-027-632-100265		Matches 609; Conservative	1; Mismatches 0;	Indels 0; Gaps 0;
Query Match	15.9%			
Best Local Similarity	99.8%			
Matches 609; Conservative				

QY	2245	CAAGTGTCTCCCTCCAGCCAGCCGCTGACCTCAAGAAAGTGTCAAGAGATGGCCAGTACTT	240
Db	610	CCAGTGTCTCCCTCCAGCCAGCCGCTTAACTCAAGAAAGTGTCAAGAGATGGCCAGTACTT	551
QY	2405	GGCAGCCCGAAAGACACACAGACACCCCTTATGTGCCATGGCTTAAGACTTAACCCGTAC	2465
Db	550	GGCAGCCCGAAAGACACACAGACACCCCTTATGTGCCATGGCTTAAGACTTAACCCGTAC	491
QY	2465	CAAGCTAGTATGGGCCATTACCTTTACCCCGACGTCACAGTGTCA CAGGTAGTACTT	2524
Db	490	CAAGCTAGTATGGGCCATTATTAACCTTTGACCCCGACGTCACAGTGTCA CAGGTAGTACTT	431
QY	2525	GGTCTTAGGGTGTGCTTAGAGGCCAACTCTTCCTGCCACCCCCACACCAAGAACTTATATGG	2588
Db	430	GGTCTTAGGGTGTGCTTAGAGGCCAACTCTTCCTGCCACCCCCACACCAAGAACTTATATGG	371
QY	2585	TTTCTCACTTCCACCATGATCTGTGGTCAAGTATGATGTGTGGCCGTGGAAAGGCACC	2644
Db	370	TTTCTCACTTCTCCACTGATCTGTGGTCAAGTATGATGTGTGGCCGTGGAAAGGCACC	311
QY	2645	TGGTAGTTGGATCCACACATTTATAGTATGTGCACACACTTCTCTGCCACAGGCCGAGG	2704
Db	310	TGGTAGTTGGATCCACACATTTATAGTATGTGCACACACTTCTCTGCCACAGGCCGAGG	251
QY	2705	GACAGGGTGAAGGATTATCCCAAAAGCTGATGACAGGCCCATTTAGCTTAAGAAACAATCTGCAG	2764


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CURRENT FILING DATE: 2001-05-23
PRIORITY APPLICATION NUMBER: US 60/180,312
PRIORITY FILING DATE: 2000-02-04
PRIORITY APPLICATION NUMBER: US 60/207,456
PRIORITY FILING DATE: 2000-05-26
PRIORITY APPLICATION NUMBER: US 09/632,366
PRIORITY FILING DATE: 2000-08-03
PRIORITY APPLICATION NUMBER: GB 24263.6
PRIORITY FILING DATE: 2000-10-04
PRIORITY APPLICATION NUMBER: US 60/236,359
PRIORITY FILING DATE: 2000-09-27
PRIORITY APPLICATION NUMBER: PCT/US01/00666
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00667
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00664
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00669
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00665
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00668
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00663
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00662
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00661
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00670
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: US 60/234,687
PRIORITY FILING DATE: 2000-09-21
PRIORITY APPLICATION NUMBER: US 09/608,408
PRIORITY FILING DATE: 2000-06-30
PRIORITY APPLICATION NUMBER: US 09/774,203
PRIORITY FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annumax Sequence Listing Engine vers. 1.1
SEQ ID NO 23962
LENGTH: 431
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC022262.3
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 4.8
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.2
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.9
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 4.5
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4.6
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.2
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 4.1
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 3.2
OTHER INFORMATION: EST_HUMAN HIT: BE315402.1, EVALUE 0.00e+00
OTHER INFORMATION: SWISSPROT HIT: Q02084, EVALUE 5.00e-28
OTHER INFORMATION: NT HIT: G11423970, EVALUE 0.00e+00
US-09-864-761-23962

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	Query March	11.3%	Score 431;	DB 9;	Length 431;
	Best Local Similarity	100.0%	Pred. No. 1e-107;		
	Matches 431;	Conservative	0;	Mismatches 0;	Indels 0; Gaps 0;
Oy	1643 GTAGTGGCGGTCCACTACTGGAGGGGTGGGTGGCCGAGAACCCAGTGGGTGATCGGAC				1702
Db	431 GTAGTGGCGGTCCACTACTGGAGGGGTGGGTGGCCGAGAACCCAGTGGGTGATCGGAC				372
Oy	1703 TGGCACAGAAAGCCGCAAGCCGCAAGGCGAGATCCAGATCCAGCCAGCCGCGTTCT				1763
Db	371 TGGCACAGAAAGCCGCAAGCCGCAAGGCGAGATCCAGATCCAGCCAGCCGCGTTCT				312
Oy	1763 ACTGCATCTGATGACGATGGCAACCACTACAGCGCTTGCAACGAGCCCTTGACGCGGC				1822
Db	311 ACTGCATCTGATGACGATGGCAACCACTACAGCGCTTGCAACGAGCCCTTGACGCGGC				252

Qy	1823	TTAAACGTCGGGACAACCTTGACAAAGTGGGTCTTCTTGACTATGACCAAGGCTTGC	1882
Db	251	TTAAACGTCGGGACAACCTTGACAAAGTGGGTCTTCTTGACTATGACCAAGGCTTGC	192
Qy	1883	TCATCTTCTAACAATGCTGATGACATGTCCTGGCTCTACACCTTCCGGAGAAGTTCCCTG	1942
Db	191	TCATCTTCTAACAATGCTGATGACATGTCCTGGCTCTACACCTTCCGGAGAAGTTCCCTG	132
Qy	1943	GCAAGCTCTGCTCTTATCTTACGCGCTGGCCAGAGCCACGCGCAATGGCAAGACGTTGAGC	2002
Db	131	GCAAGCTCTGCTCTTATCTTACGCGCTGGCCAGAGCCACGCGCAATGGCAAGACGTTGAGC	72
Qy	2003	CGCTGCGGATCAACACCGTCGGATCTTAGTCCAGGCAAGAGAGACCAACACTCTCTGG	2062
Db	71	CGCTGCGGATCAACACCGTCGGATCTTAGTCCAGGCAAGAGAGACCAACACTCTCTGG	12
Qy	2063	ACCACTGGCAC 2073	
Db	11	ACCACTGGCAC 1	

QY	2063	ACCACTGCCAC	2
Db	11	ACCACTGCCAC	1

RESULT 11
US-10-094-749-1459
; Sequence 1459, Application US/10094749

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: GENERAL INFORMATION:
: APPLICANT: ISOGAI, TAKAO
: APPLICANT: SUGIYAMA, TOMOYASU
: APPLICANT: OTSUKI, TETSUJI
: APPLICANT: WAKAMATSU, AI
: APPLICANT: SATO, HIROYUKI
: APPLICANT: ISHII, SHIZUKO
: APPLICANT: YAMAMOTO, JUN-ICHI
: APPLICANT: ISONO, YUUKO
: APPLICANT: HIO, YURI
: APPLICANT: OTSUKA, KAORU
: APPLICANT: NAGAI, KEIICHI
: APPLICANT: IRIE, RYOTARO
: APPLICANT: TAMECHIKA, ICHIRO
: APPLICANT: SEKI, NAOHICO
: APPLICANT: YOSHIKAWA, TSUTOMU
: APPLICANT: OTSUKA, MOTYUKI
: APPLICANT: NAGAHARI, KENJI
: APPLICANT: MASUHO, YASUHIKO
: TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
: FILE REFERENCE: 084335/0160
: CURRENT APPLICATION NUMBER: US/10/094,749
: CURRENT FILING DATE: 2002-03-12
: PRIOR APPLICATION NUMBER: 60/350,435
: PRIOR FILING DATE: 2002-01-24
: PRIOR APPLICATION NUMBER: JP 2001-328381
: PRIOR FILING DATE: 2001-09-14
: NUMBER OF SEQ ID NOS: 3381
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 1459
: LENGTH: 2045
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-10-094-749-1459

```

Query Match	4.2%;	Score 160.2;	DB 17;	Length 2045;
Best Local Similarity	48.9%;	Pred. No. 6.5e-33;		
Matches 663; Conservative	0;	Mismatches 648;	Indels 44;	Gaps 7;
Qy	616	CTCAAGACGAGCTGCTGCTCTCCATTTGCGCTGAGCATTTACACGAGACCGCGTGAGCGT	675	
Db	229	CTGAGAGACCGCGCTTTCAGTGTCCATCTGCTGAGAGCTTTCAAGAGGCCCTGAGCGT	288	
Qy	676	GGCTGCGAGACACTTCTGCGCCCGCTGCATACGAGACACTGGGTCGGAGAGAGCG	735	
Db	289	CAGTGTGGCCACTTTACTGCACAGAGCGTGGCTGGTTCCTGTCTCCCACTCGAGATCC	348	

QY 736 CAGGCGCCGCGGCACTGCGCCGAGTGCAGGCGCACTTCCGAGCCCGGCTGGGCCC 795
DB 349 GAG-----CTGCGCTCCCGCTGCTGCGGAGCGGTGATGACAGACCTCCGCCC 402
QY 796 AGCTCAAGCTGGCGCAATCTGAGAGCGCTAAGCTCTTCCCGCTGAGCGCCATCTTC 855
DB 403 AACGTCCTCCGCGCAGAGGTGATGAAAGCCCTGAGG--CTCCCTGGGGAGCCGGAGCCCA 460
QY 856 AAGCGCGCGCGCGCGCGGCGACCTGCGAGGCGGCAAGAGTCAAGCTCTTTCGCTTC 915
DB 461 AGGTCTCGGTGACCAACCGGAAACCCCG-----TCAGCCTTCTTCGAG 504
QY 916 ACGGACCGCGCTTCTCTGCTCTTCTGCGAGAGCTTCACTGACGAGCATGAG 975
DB 505 AAGGACCGAGGAGCTCATCTGTGCGCTCTGCGGTCTGCTGGGCTCCACCAACCAACCGG 564
QY 976 GTTACCGGCTTCAAGCAAGCTTTCAGAGCTGCAAGGAGAGCTGAAGACCACTTCAG 1035
DB 565 GTTACCGGCTTTCAGCAAGCTTTCAGAGCTGCAAGGAGAGCTGCAAGCTTTCATCTCT 624
QY 1036 GCCCTTCAAGACAGCGAGCGGGAACAACCGAAGCGCTGCACTGCTCAAGGCAACTG 1095
DB 625 GAGCTGAAG 684
QY 1096 GCGGAGACCAAGTCTTTCAGCAAGAGCTGCGGAGCCTTTCAGAGAGAGAGAGAGAG 1155
DB 685 ACCTGATGCTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 744
QY 1156 CTGACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1215
DB 745 CTGACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 802
QY 1216 GCCCGACGCTGACCGACATCGAGCAGAAAGTCCAGCGCTTACGAGCAGAGCTGCGCAG 1275
DB 803 ACCCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 862
QY 1276 GTTCAAG 1335
DB 863 CCGGCTGCGGCGCAAG 922
QY 1336 CTGCGCTG-----GGTGCCTCACTGCTGCGAGCGGCTTCAAGGAGAGAGAGAGAGAG 1389
DB 923 ATCCGCTTCCATCTCATGCTTCCAGAGCAGGCTTCCAGAGGCTTCAAGGAGAGAGAGAG 982
QY 1390 AACTCTCATATGAAGAATTCCGACCTTCAAGTCAAGAGAGAGAGAGAGAGAGAGAGAG 1449
DB 983 GCATTCAGCGCCCATCTCTTCAAGCAGGCTTCCAGAGGCTTCAAGGAGAGAGAGAGAG 1042
QY 1450 TGGAGTCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1509
DB 1043 TGGAG 1102
QY 1510 AAGGCGCAAG 1569
DB 1103 ACTGCGCAACCACTCTGGAAGCTTC---CAAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 1159
QY 1570 CACCCAG 1629
DB 1160 CTGCGCGCGCGCGCGAG 1219
QY 1630 TCTGAAGCTTCAAGTGTGCGTCACTACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1689
DB 1220 AGCGCGCGCTTCTCTGCGCGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1279
QY 1690 TGGGATGTGGGCTGAGCAG 1749
DB 1280 TGGGCTGCTGAG 1339
QY 1750 AGCGCGCGCTTCTCTGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1809
DB 1340 GAGCAGCGAG 1399
QY 1810 CCTGAGAGCGGCTTAAAGTCCGGGAGCAAGCTTGAAGAGAGAGAGAGAGAGAGAGAGAG 1869

DB 1400 CCCCCGTAACCCCTGCGCGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1459
QY 1870 GACCAAGGCTTGTATCTTCAAGAG-----CTGATGATGATGATGATGATGATGATGAT 1920
DB 1460 GAGCAGGAG 1519
QY 1921 ACCCTTCCGAG 1955
DB 1520 ACTTCCAGGCGGAG 1554

RESULT 12

US-09-764-868-418
; Sequence 418, Application US/09764868
; Patent No. US2002016871A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; PRIOR FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 418
; LENGTH: 1394
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-418

Query Match

3.6%; Score 136.4; DB 9; Length 1394;
Best Local Similarity 54.9%; Pred. No. 1.9e-26;
Matches 269; Conservative 0; Mismatches 221; Indels 0; Gaps 0;

QY 1482 GCCAGCGCCCTTAACCTTGAACCCGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1541
DB 45 GCCAGCGAG 104
QY 1542 CTGACCATTTGTGCTTACGCGCACTTGCACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1601
DB 105 TCGTGAAG 164
QY 1602 CTTCGATGTGAG 1661
DB 165 TTTCACCTTACCTTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 224
QY 1662 GAGAGTGTGTGAG 1721
DB 225 GAGAGTGTGTGAG 284
QY 1722 CCGCAG 1781
DB 285 CCGAAG 344
QY 1782 TGGCAACCAATACAG 1841
DB 345 TGGGAG 404
QY 1902 TGACATGCTGCTGCTTACCTTCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1961
DB 465 AGAGCGCTTCAATATTAACCTTCACTGATATCTTAACTGAGAAACTTGTGCGCCCTTCT 524
QY 1962 CAGCCCTGAG 1971
DB 525 CTACCAAGAG 534
RESULT 13


```
US-10-120-988-277
; Sequence 277, Application US/10120988
; Publication No. US20030219745A1
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Goodrich, Ryle
; APPLICANT: Liu, Chenghua
; APPLICANT: Ren, Feiyun
; APPLICANT: Wang, Dunrui
; APPLICANT: Dmanac, Radoje T.
; TITLE OF INVENTION: No. US20030219745A1el Nucleic Acids and
; FILE OF INVENTION: Polypeptides
; FILE REFERENCE: 802CON
; CURRENT APPLICATION NUMBER: US/10/120,988
; PRIOR FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: 09/774,528
; NUMBER OF SEQ ID NOS: 441
; SOFTWARE: pc FL_genes Version 2.0
; SEQ ID NO 277
; LENGTH: 3038
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1557)
US-10-120-988-277
```

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Query Match      3.5%; Score 132.4; DB 17; Length 3038;
Best Local Similarity 54.5%; Pred. No. 3.5e-25;
Matches 265; Conservative 0; Mismatches 221; Indels 0; Gaps 0;
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QY 1486 GCGGCCCTTACCTTGAGACCCGGGACAGCCACACAGCCCTGATCTCTGCGACGATCGC 1545
DB 1009 GCGGATGTACACCTTGACCCCTGAGACAGCTCACTTACCTGATCTCTGCGACGATCGT 1068
QY 1546 ACCATTGTGGCTTACCGCAACTTGACCCACAGCCACTGAGAGCTCGCCAAAGCGCTTC 1605
DB 1069 AAGAGCGTAAATTCTGTGAGACAGACTCCGGGATCTCCCTGACACACCAAGCGCTTC 1128
QY 1606 GATGTGAGAGTGTGGTGTGAGGTTCTGAAGCCTTCAAGTAGTGAGCGTCACTAATGGAG 1665
DB 1129 ACCTTCAACCTTGCGTCTGCGTACTGAGGGTTTCACTCAAGGTGACACTAATGGAG 1188
QY 1666 GTGTGTGTGTGCGGAGAAAGCCCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1725
DB 1189 GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1248
QY 1726 AAGGGGAGCATCCAGATCCAGCCGAGCCGCGCTTCTAATGATGTGTGTGTGTGTGTGT 1785
DB 1249 AAGGGGAGCATCCAGATCCAGCCGAGCCGCGCTTCTAATGATGTGTGTGTGTGTGTGT 1308
QY 1786 AACCATGACAGCGCTTGACAGGAGCCCTGAGCGCGCTTAAAGCTCCGGGACAACTTGA 1845
DB 1309 GAGGAATATGACAGCCACACACACTTTTACCTTTCACATGAAGGTGAACCAAG 1368
QY 1846 AAGGTGTGTGTCTTCTGTGACATGACCAAGGCTTCTCACTTCTTCAATGTGTGTGT 1905
DB 1369 CGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1428
QY 1906 ATGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1965
DB 1429 CGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1488
QY 1966 CCTGGC 1971
DB 1489 CCAAGC 1494
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RESULT 14
US-10-104-047-103
; Sequence 103, Application US/10104047
; Publication No. US20030236392A1
```

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; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. US20030236392A1el full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; PRIOR FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 103
; LENGTH: 1904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-104-047-103
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Query Match      3.2%; Score 122.8; DB 17; Length 1904;
Best Local Similarity 45.7%; Pred. No. 1.2e-22;
Matches 519; Conservative 0; Mismatches 602; Indels 15; Gaps 2;
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QY 893 ACAAGTCAAGCTCTTCTGCTCAGGACCGGCGCTTCTCTGCTTCTTCTGCGAGAC 952
DB 1 ACCGCTGAGCATCTACGCGAGACCGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 60
QY 953 CTGCACTGACGAGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1012
DB 61 TGGGCTGCGACCGCGGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
QY 1013 GGGAGCTGAGAGACCACTTCAAGGCTTCAAGACAGCGAGGAGGAGGAGGAGGAGGAG 1072
DB 121 CACAGCTGCGACAGAGAAATGCGAGCTGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAG 180
QY 1073 TGCAGCTGTCAAGGAGCACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1132
DB 181 TGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240
QY 1133 CTATGCGAGGAGCTTCTGAGCGGCTGCAACCGGCTGCTGCTGCTGCTGCTGCTGCTG 1192
DB 241 CCGTGGGAGGAGAGCTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 300
QY 1193 TAGAGAGCTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1252
DB 301 ACCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
QY 1253 GCTAAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1312
DB 361 GCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 420
QY 1313 CTGAAACGAGCGGAGCACTTCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1372
DB 421 ACAAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480
QY 1373 GAAAAATCATGAGACCAACTTCAATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1432
DB 481 TCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 540
QY 1433 CCCTGAGTACCACTTGTGAGAGTCCCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1492
DB 541 ACTTCAAAATTCAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 600
QY 1493 TAACCTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1552
DB 601 TGAACCTTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660
QY 1553 TGGCTTACGCAACTTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1612
DB 661 TGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720
QY 1613 AGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1672
DB 721 CGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 780
QY 1673 TGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1732
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Db 781 TTGGCACAAGCGCGCTGGGGGCTGATGCGGGCCAGAGGCCCCCGCGGGGC 840
Qy 1733 GCATCCAGATCCAGCCCGCGGCTTCTAATGATGATGACAGATGCA----- 1786
Db 841 GCTTGACGCGGTGCTTCCGACAGGGCTGTGGCTGGGGCTGCGCGAGGGGCAAGATCC 900
Qy 1787 ---ACAGTACAGCGCGCTGACAGCGCCCTGAGCGGGCTTAAACGTCGGAGCAAGCTTG 1843
Db 901 TGGAGGACACGCTGGAGGCGCAAGAGCCGCGCTTGGCGAGCCCGAGAGCGGCGCA 960
Qy 1844 ACAAGTGGGTGTCTTCTGGAATAGCAAGCTTGTCTCAATCTTCAATGCTGATG 1903
Db 961 CCGCATTTGGCTTTTACTGAGCTTGGGCGACGGCGTCTCTCTTCTTCAATGCGAGCG 1020
Qy 1904 ACATGCTCTGGCTTACACTT-----CCGGAGAAAGTTCCCTGGCAAGCTTGTCTT 1957
Db 1021 AGCGCGACCGGCTGCTGCGCTTTTGTCCCTTCCACAGCGCTGCGCCAGGCGCTGTAC 1080
Qy 1958 ACTTCAGCCCTGGCGCAGAGCCACGCGCAATGAGCAAGAACGTTGAGCGCGTGGGATC 2013
Db 1081 CTTTCTTGACGCTGTGTGGCACGACAGAGGCAAGATGCCAGCGCGCTGCTGCTC 1136

RESULT 15
US-09-731-872-225
; Sequence 225, Application US/09731872
; Patent No. US20020102604A1
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean Baptiste
; APPLICANT: Bouqueleret, Lydie
; APPLICANT: Jobert, Severin
; TITLE OF INVENTION: FULL-LENGTH HUMAN cDNAs ENCODING POTENTIALLY SECRETED PROTEINS
; FILE REFERENCE: 78. US3. REG
; CURRENT APPLICATION NUMBER: US/09/731,872
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,629
; PRIOR FILING DATE: 1999-12-08
; PRIOR APPLICATION NUMBER: US 60/187,470
; PRIOR FILING DATE: 2000-03-06
; NUMBER OF SEQ ID NOS: 482
; SOFTWARE: Patent.pm
; SEQ ID NO 225
; LENGTH: 1739
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 171..1670
; US-09-731-872-225.

Query Match 3.2%; Score 122; DB 9; Length 1739;
Best Local Similarity 51.9%; Pred. No. 2e-22;
Matches 300; Conservative 0; Mismatches 275; Indels 3; Gaps 1;

Qy 1419 CAAGTACACAGGCCCCCTGACAGTACCATCTGAAGTCCCTGTTCAGATCCACC 1478
Db 1070 CCAGTACAAAGGTCTATCCAGTACATGATGAGGAATGACAGACACTCTGCCC 1129
Qy 1479 AGTGCACGCCGCTTAACCTTGAGACCGGGACAGCCACCAAGCGCTGATCTGTGGA 1538
Db 1130 AGGCTGTCTCACTACTTGAGACCTTAAACAGCTCACCCMAATCTGTGCTCCAA 1189
Qy 1539 CGACTGACCAATTGGCTTACGGCACTTGCAACCCACAGCACTGCGAGGACTGCGCAA 1598
Db 1190 AAGCCAAACAGCGCTGAGCATGTGATTAAGA--AGATPATGCTGATGATCTGA 1246
Qy 1599 GCGCTTCATGTGAAGTGTGCTGTGCTGTGAGCTTCAATGAGTGGCGTCACTA 1658
Db 1247 GAGGTTGACTCAAGTGTGCTGTGCTGTGCTGAGGCTCAAGAGCTTCACTGGAAGTGTG 1306
Qy 1659 CTGGAGGTGTGTGTGGGCGGAGAGCCAGTGGGTGATCGGGCTGGGACAGAGCGGC 1718

Db 1307 CTGGAGATTAAGATTAAGCAAAAGAAAGACAAATGACACTTGAAGTTTCAGAAATCCAT 1366
Qy 1719 AAGCCGAAGGCGACATTCAGATTCAGCCGCGGCTTCTAATGATGATGCA 1778
Db 1367 CATTCGAAAGGCGAGCTGTCTTCAATCTGAGCAAGAAATTCGGCTTTAAAGACTAAG 1426
Qy 1779 CGATGGCAACAGTACAGCGCTGACAGGACCCCTGAGCGGGCTTAACTCCGGAGCA 1838
Db 1427 GAACCAACTGATCTAAGGCTCTGAGATTTGCTTCTTCAATGATGACATGATCA 1486
Qy 1839 GCTTGACAAGTGGGTGTCTTCTGGAATAGCAAGCTTGTCTCAATGATG 1898
Db 1487 CCGTGAACAAGTGGGCAATATCTGATTAAGAGAGAGAGAGATGTCTTCAATG 1546
Qy 1899 TGATGACATGTCTGCTCTACACCTTCCGGAAGTTCCTGGCAAGCTTGTCTTA 1958
Db 1547 TAAACCAATGACTCAATTTACCTTCAATGACATTTCAATGAGAAATTTATCCCTA 1606
Qy 1959 CTTGAGCCCTGGCGCAGAGCCAGCGCAATGGCAAGAG 1996
Db 1607 CTTGCGCCCTGCTTAAATGATGATGATGAGAGAAATTAAG 1644

Search completed: February 21, 2005, 22:09:34
Job time : 2000 secs